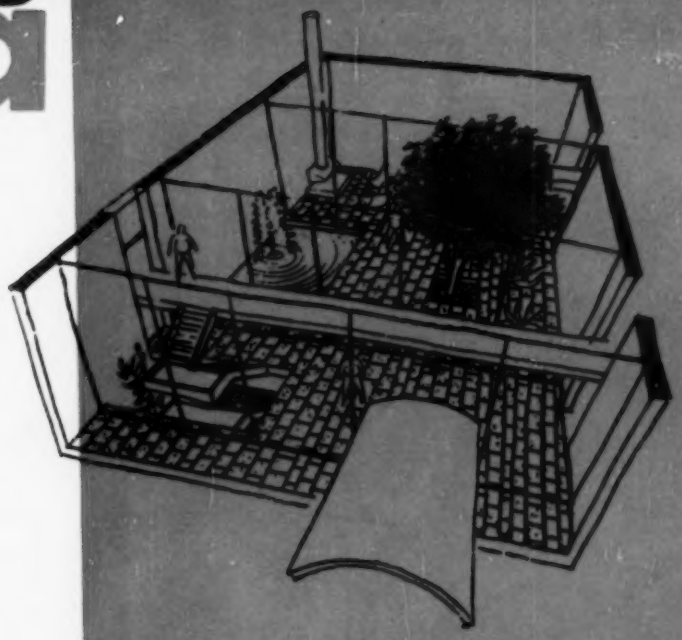
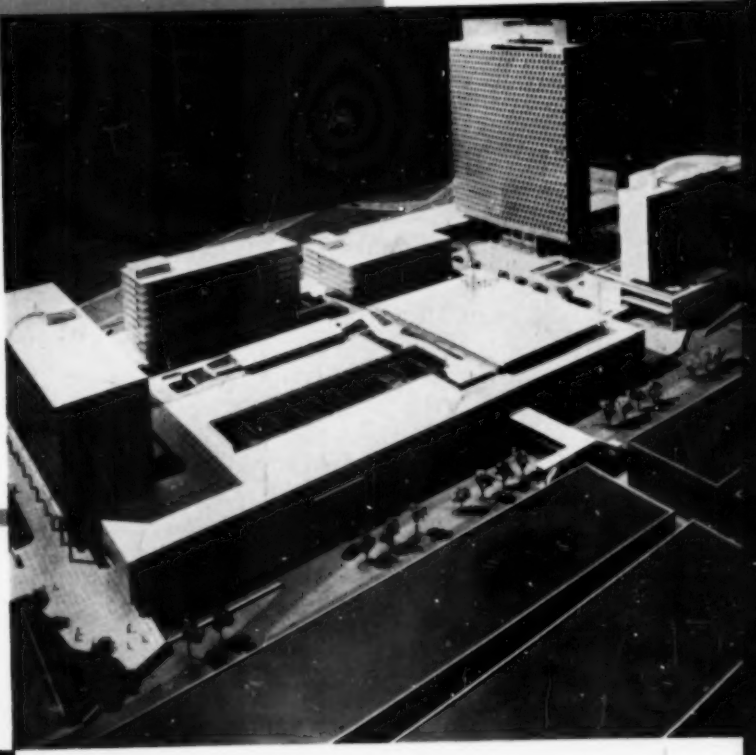
pa

Progressive Architecture



design awards program



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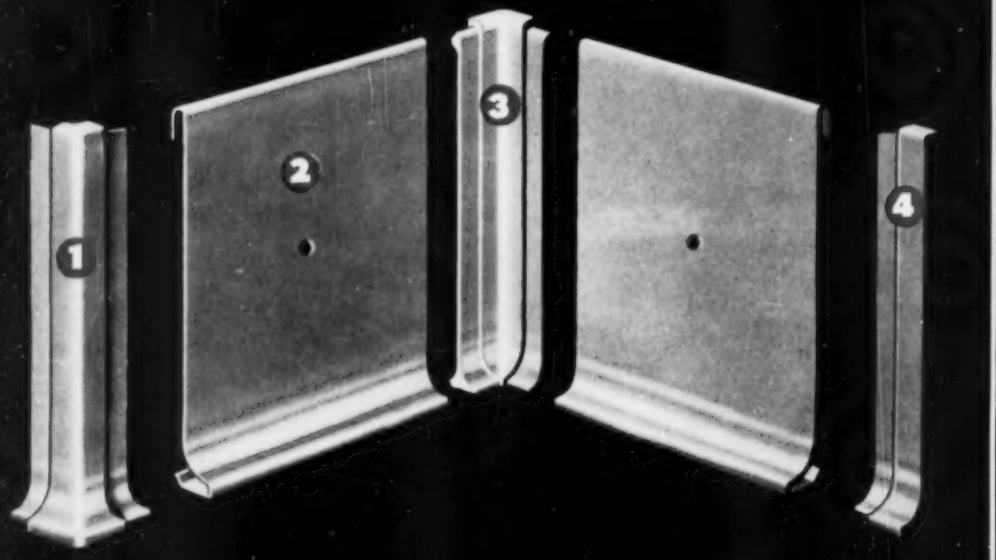
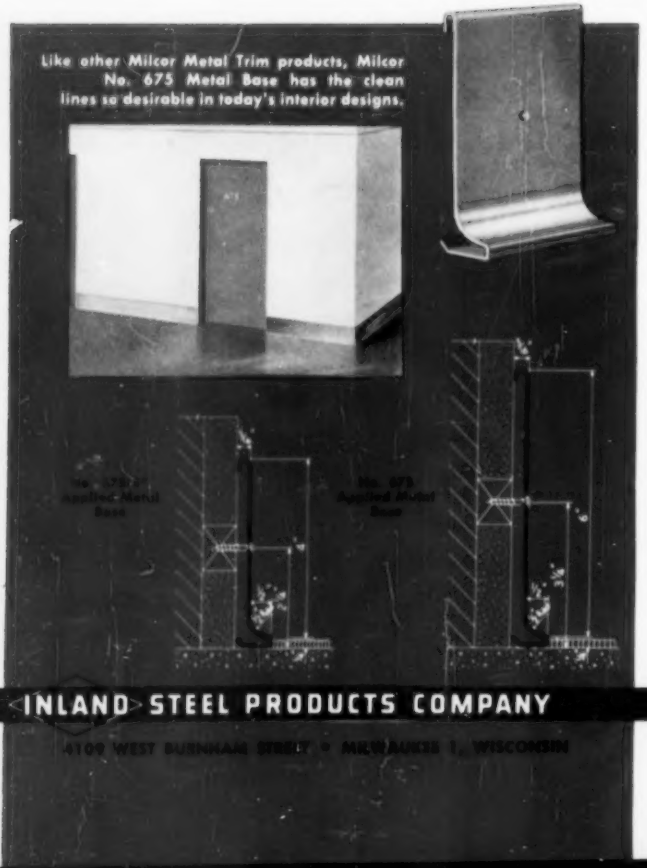


1. Square outside corner.
2. No. 675 Metal Base section — available in 4" and 6" heights in standard 10-ft. length.
3. ¾" radius inside corner
4. End stop — available in left- or right-hand styles.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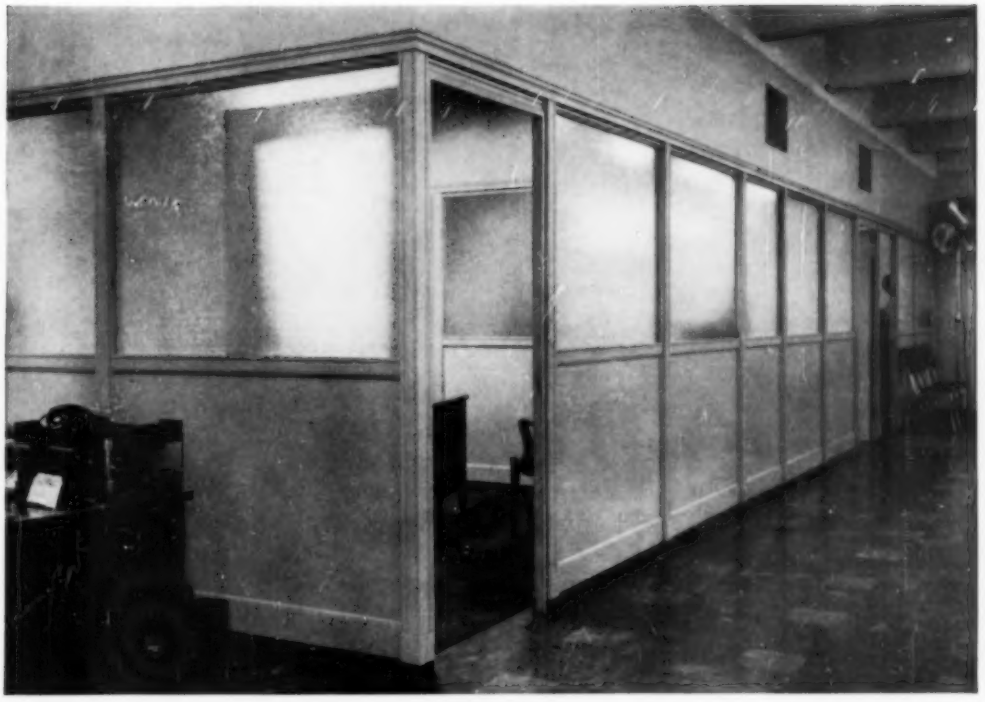

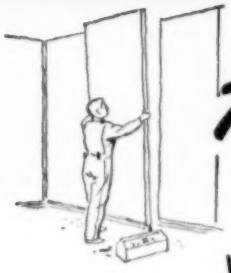

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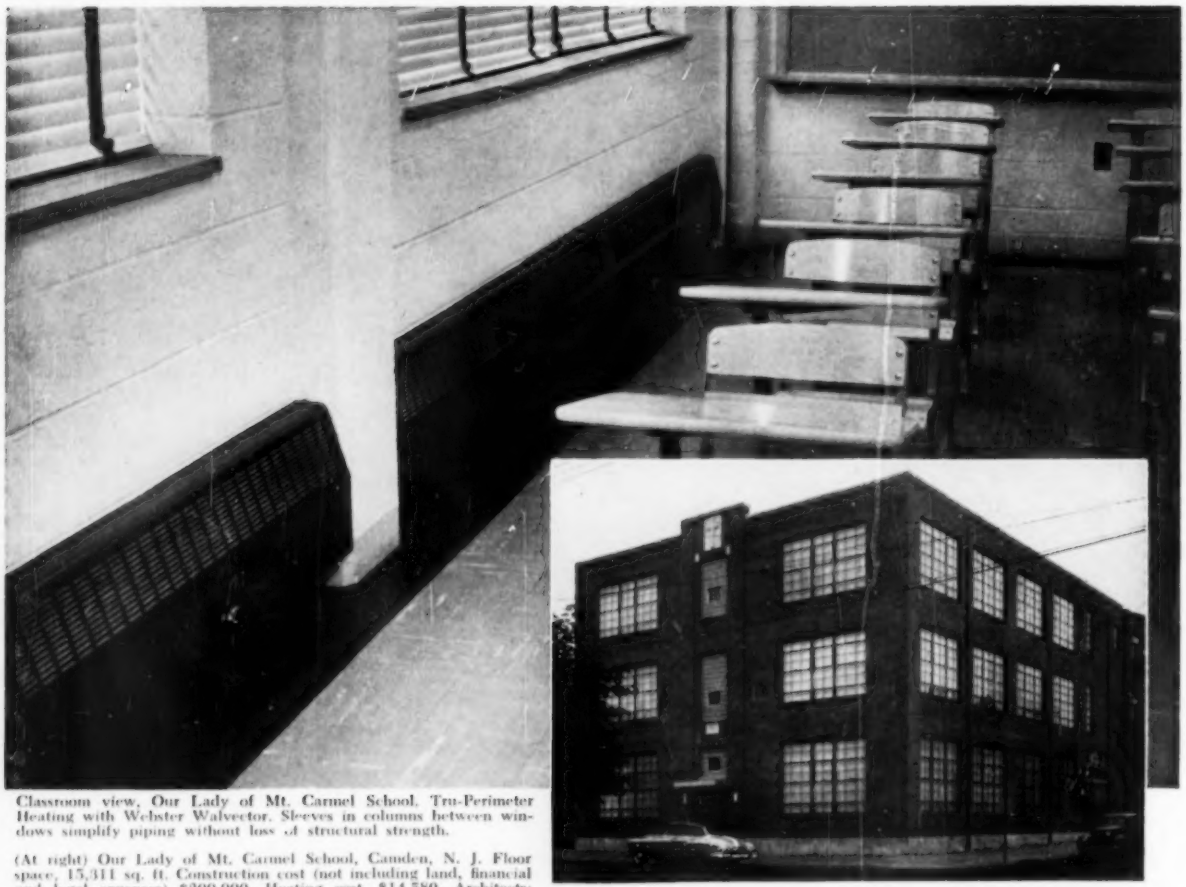

Classroom view, Our Lady of Mt. Carmel School. Tru-Perimeter Heating with Webster Walvector. Sleeves in columns between windows simplify piping without loss of structural strength.

(At right) Our Lady of Mt. Carmel School, Camden, N. J. Floor space, 15,311 sq. ft. Construction cost (not including land, financial and legal expenses) $200,000. Heating cost, $14,580. Architects: Gleeson & Mulrooney, Philadelphia. Consulting Engineer: William G. Flurer, Upper Darby, Pa. Heating Contractor: Fred W. Schorpp, Inc., Camden.

11-Room School — $200,000

Gleeson & Mulrooney, Philadelphia school architects, designed this three-story school building, completed in 1953 at a cost of $13.10 per square foot. The bright, appealing classrooms accommodate 650 pupils. High windows assure ample light and air.

Economy in first cost was aided by the simplified exterior and absence of unnecessary frills. Nevertheless, the building has such features as slate sills, vermin-proof walls, ventilated clothes closets and well lighted corridors. And the complete Webster Tru-Perimeter Heating System with Webster Moderator Control required less than 7½ per cent of the construction cost.

Webster Walvector spreads the heat evenly along the perimeter of the building, blankets the large window areas, takes no usable floor space. Low pressure steam is under Webster EH-10 Moderator Control, which varies heating automatically with changes in outdoor temperature . . . provides manually for quick heating of rooms when classes arrive, reduction of heat when they leave. Steam circulation is facilitated with Webster Traps, Valves and Webster Double Service Valves. The rugged, single-unit Webster Moderator Control involves minimum maintenance cost — no blowers or fans, no buried or inaccessible piping.

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p/a newsletter

January 1954

Total dollar volume of construction expenditures has soared steadily from $12 billions in 1946 up to approximately $34.8 billions for year just ended. But if outlook estimates by Commerce and Labor Department economists prove correct, and P/A's Business Forecast, reported in this issue, is as accurate as it has been in the past, construction work will fall somewhat in '54 for first time in eight years. Government agencies predict year-end total of $34 billions, breaking this figure down into $22.8 billions for private expenditures, $11.2 billions for public outlays.

Predictors assumed there will be no significant change in international situation; continuing high levels of employment and personal income (but slight easing in general economy and some rise in unemployment) will prevail. In addition, economists are anticipating approximately one million nonfarm housing starts, adequate mortgage funds, very little variation in present building costs.

Miles L. Colean, Washington, D.C., economic consultant, writer, and authority on housing, has been appointed to President's Advisory Committee on Housing Policies and Programs (NEWSLETTER, November, 1953 P/A). Colean will serve as a coordinating member between four special subcommittees and Executive Committee.

"Sixty Years of Living Architecture," Frank Lloyd Wright's six-week exhibition shown in pavilion on site of New York's Guggenheim Museum, included models, photographs, floor plans, drawings, and full-scale Usonian House.

AIA Department of Public and Professional Relations has prepared third edition of directory of federal agencies contracting for building designs. Current policies and names of personnel concerned with programs are compiled. Directory is available upon request to AIA headquarters at 1735 New York Avenue, N.W., Washington 6, D.C.

University of Utah has announced the accrediting of its Department of Architecture. Roger Bailey, Department Head, points out in announcement that this establishes first accredited school of architecture between Midwest and Pacific Coast and lists Prof. Donald Panushka, Alfred M. Moffett, and Prof. Stephen L. Macdonald as recent additions to staff.

Minneapolis group interested in halting haphazard hospital building in that city is considering plans for proposed Hennepin Hospital center. If plans go through, participating hospitals would not merge but erect several new buildings on site where three are now located; share many medical and other services. Preliminary study of center has been made by Minneapolis Architects Magney, Tusler & Setter.

For mental-hospital design-research project, American Psychiatric Association would like to obtain data from architects on mental hospitals in their areas worth investigation—information on how well they are functioning, criticisms of their planning by those in charge. Communications should be addressed to Dr. J. L. Smalldon, Director, Hospital Architectural Study, American Psychiatric Association, 1785 Massachusetts Avenue, N.W., Washington 6, D.C.

Turn page for WASHINGTON PERSPECTIVE

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ABP

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newsletter

Frederick Gutheim

Washington Perspective

Architecture should share in 1954 the continued high economic level unanimously predicted by all government agencies. Never in 25 years observation have I seen such unanimity from all voicing such forecasts.

The outlook for government activity and legislation as Congress convenes is less certain. The even balance between the two parties in the House and Senate, and the fact that President Eisenhower and the members of his Cabinet tend to regard their duties as purely executive in nature, make it unlikely that there will be important new proposals for basic legislation—much less any attempts to push them through a reluctant Congress. Except for that headed by Former President Hoover, the various Executive Commissions appear unlikely to make any decisive legislative recommendations.

The 1954 outlook is for maneuver, personalities, politics, but hardly much in the way of the serious business of government. The other day, Lewis L. Strauss, urbane Chairman of the Atomic Energy Commission, told a Civil War story—which he promptly denied had any present application. The way he told it, a party of Virginians called on Lincoln on the eve of hostilities in a last-minute effort to avert the Civil War. They arranged a telegraphic code to communicate the results of their efforts to their associates back home. If successful, they proposed to wire, "Blessings." If unsuccessful, "Calamity." But if they encountered a situation in which they could get no decision, they proposed the code word, "Washington."

Within what is customarily termed "the official family" genuine policy differences have erupted. More will be heard from them, for unresolved contradictions are just so many time bombs ready to explode at the slightest partisan pressure. One of them, of some importance to architects and construction interests, exists in the person of Robert B. Murray Jr., Undersecretary of Commerce for Transportation, and an outspoken foe of Federal aid for highways, airports, and other transportation facilities. Murray wants to give the Federal gas tax back to the states and let them do the road jobs. This is hardly the view of Francis Dupont, the Federal Roads Commissioner, or of F. B. Lee, Civil Aeronautics Administrator, but they have refrained from public debates on the issue. Congress, however, cannot remain aloof.

If anything is being done about the public works program which Dr. Arthur F. Burns, Chairman of the President's Council of Economic Advisers, said would be invoked as a depression remedy, it is moving with glacial speed. Word of it has yet to reach any operating agency of the government. A new crop of ex-professors is having to learn that about eight months lead time is needed, from the date the order to draw plans is given until some tangible effect in terms of employment is noted: plus the time it takes to bring into being an organization to direct such activity. We are grossly unprepared to use public works for contracyclical purposes, especially to deal with the fundamental problems of timing and management. And it would be helpful if more architects said so.

As dimly seen through the haze of military security, our program to build an American "Gibraltar" in southern Spain is falling considerably short of what might have been offered Europe and our NATO allies: a demonstration of American co-operation and technical prowess on a scale comparable to TVA. Five large submarine and air bases are being planned in Andalusia—a region notably deficient in water, electric power, railroads, and necessary supporting civilian population and facilities required to serve them. All these deficiencies will have to be made good, whether by planning or scrambling. A narrowly conceived construction program will sacrifice these larger values, and lead to waste, delays, and other difficulties at a later stage of development. Port facilities and air bases are not enough in a program of this magnitude, but it would take an outstandingly strong and able designer to point this out to the agencies involved. Somehow I can't imagine Charles Luckman, the architect chosen to co-ordinate the program, being the one to say it.

While little change is in prospect, a muffled explosion in housing affairs would surprise no one here. Statements by HHFA Administrator Albert M. Cole and his aids leave no doubt that they are not going to hand over the program to the special interests who have been demanding special treatment. The mortgage men have received some benefits thus far; but more recently they have been warned that their continuance depends upon a high level of housing output. The homebuilders are receiving from FHA Commissioner Guy T. O. Hollyday treatment nearly as stern as that given the cattlemen. Cole has now embraced the basic philosophy of the Housing Act of 1949—that the housing program is one of public concern, a national responsibility, and a unified problem to be dealt with by a single agency with an integrated program. Since nothing is less compatible with the self-centered demands of special interests, it is hard to see how he can now avoid a head-on row with his housing advisory committee. Indeed, the very creation of this group now appears to have been a political blunder.

Deep cuts in government personnel continue, accompanied by some wry jokes. The one I liked best came from a secretary whose roommate had been Reduced in Force. She was explaining the situation to their mutual laundress in the current Washington jargon, "Miss Henderson got riffed yesterday." And received the reply, "My goodness! Did they get the man's name?"

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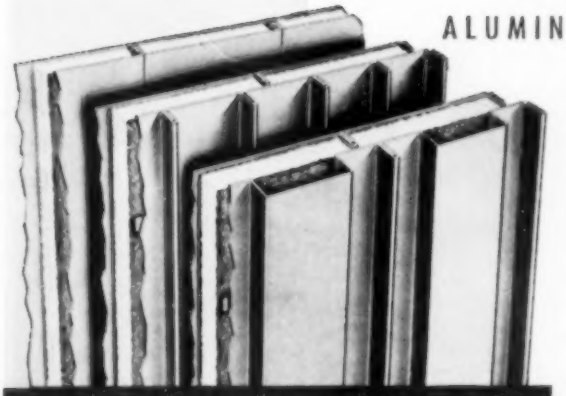

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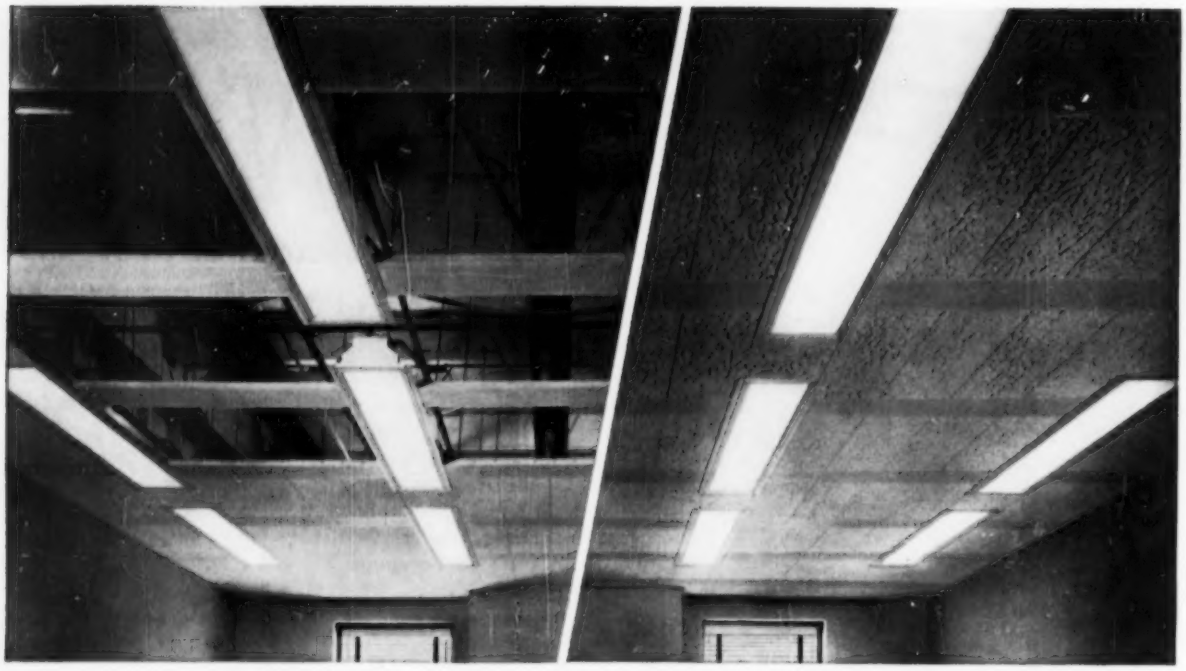

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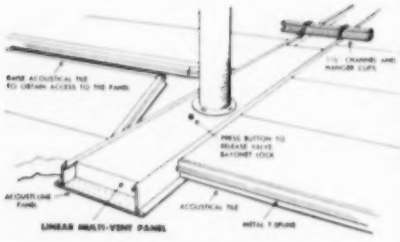

The perforated face of Acousti-Line metal suspension panels act as diffusing plates for Multi-Vent units. No special supports are needed. Flexible connection minimizes need for accurate alignment between duct opening and Acousti-Line panels.

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PROGRESSIVE ARCHITECTURE

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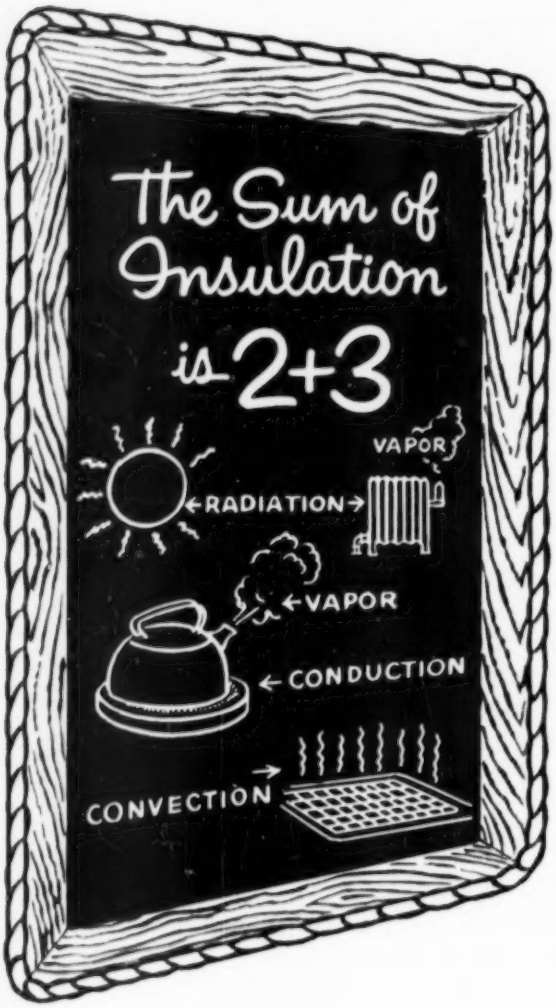

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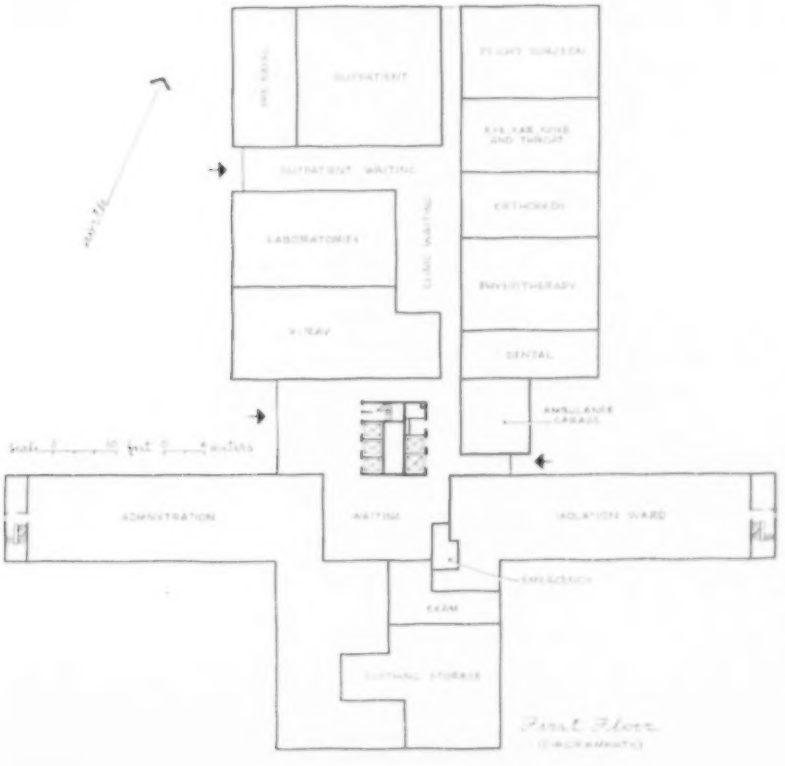
The new multiple accordion aluminum* Infra Types 6-S*i* and 4-S*i* forms a continuous blanket of uniform thickness between joists, giving the entire area maximum protection against heat loss and condensation formation. Write for samples.

The U. S. NATIONAL BUREAU OF STANDARDS has published an informative and authoritative report on "Moisture Condensation in Building Walls." This booklet explains the conditions under which condensation will take place in insulated as well as uninsulated walls; what part is played by effective vapor barriers such as metal foils; how to use and interpret thermal-resistance and vapor-resistance fractions. You can obtain it at our expense by sending us the coupon.

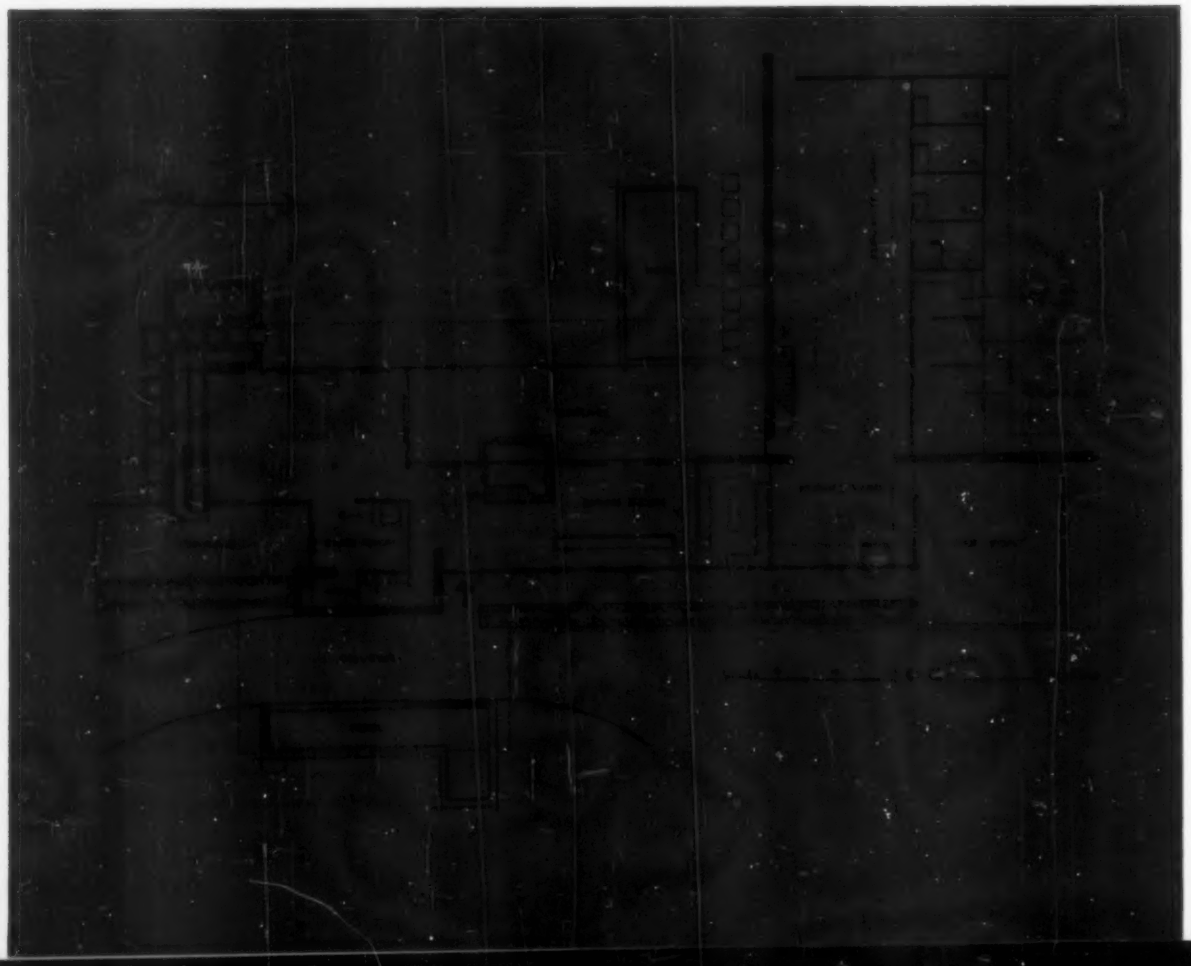
*Patent applied for

Elmendorf Air Force Base Hospital, Anchorage, Alaska: Skidmore, Owings & Merrill, Architects. Alaska's climate was a special factor in the design of this hospital. The structure is reinforced-concrete frame and floor slabs, which are insulated with cork four feet from the exterior walls. Exterior wall panels are composed largely of cork, presenting little glass to the weather.



The projects in this month's PROGRESS PREVIEW were submitted as entries in 1954 P/A Design Awards Program, but since the rules of the Program stated that entries must be "planned for construction in the United States," the Editors had to declare these projects ineligible. In the opinion of the Editors, however, these are all worthy of attention and, hence, are also included in this Design Survey issue.

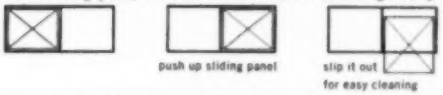
House, Manila, Philippine Islands: Roger Lee, Architect; Juan F. Nakpil & Sons, Associates. The problem was to design a house to be used often for entertaining dozens of people at a time; a house that "works" in Manila's tropical climate; and a house that capitalizes on the view to the west (where the sun is hottest). The solution is to provide deep roof overhangs and louvered walls, which allow ample air circulation while keeping out the torrential rains —and an open plan. Delineator: Paffard Clay



LET'S UNDERSTAND EACH OTHER

Confusion, or worse, often results when communication between people is impeded by a lack of mutual understanding of the terms used. In the building industries people speak a precise language. There is an exception, however. No standard terminology exists within the sliding glass doorwall industry. There isn't even a common description of the basic product. Steelbilt calls it **steel frames for sliding glass doorwalls and windows**, abbreviated to **doorwall** or **window**. Other companies say: steel sliding doors, sliding glass doors, horizontal sliding units, side sliding doors, etc. Although it is the pioneer designer and producer in its industry, Steelbilt does not presume to write a manual of terms for the industry. However, to facilitate precise communication between ouselves and our customers we present on this page some definitions of our basic terminology. ● **A doorwall unit**

is a complete operating assembly without glass consisting of (a) **surrounding frame**, (b) **sliding panel**, (c) **fixed frame**. It installs as a single complete factory assembled unit into a rough opening.

● **A window unit** 

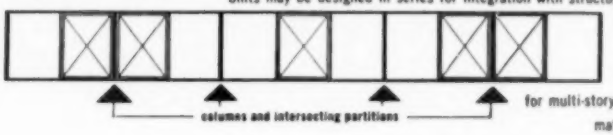
is the same as a doorwall except that its perimeter dimensions are usually smaller and its construction correspondingly lighter. ● **A fixed frame** is used separately from a doorwall or window unit to hold glass in a fixed position. The framing material matches that used in doorwall or window units.

● **Transoms**

are available as either fixed frames or sliding units. They are available separately or as an integral part of doorwall or window units. ● **A screen** consists of any of various standard screening materials mounted in a tubular steel frame. Doorwall screens slide on rollers. Window screens do not have rollers and are held by channels at head and sill.

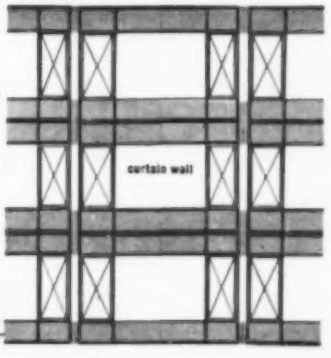
integrated window series

Units may be designed in series for integration with structural support or intersecting partitions, to develop a harmonious idea.



Or they may be combined at our factory as curtain wall units for multi-story structures, where design requires glass and opaque materials to be worked into a wall pattern.

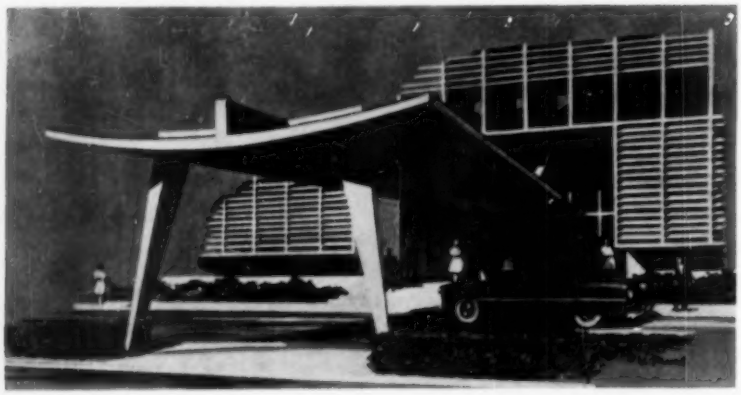
The above basic elements are available in many different models, in TOP ROLLER-HUNG and BOTTOM ROLLER **types**; either **custom made** or in **stock** sizes and models. The combination possibilities offered by this assortment of elements is limited only by the imagination of the designer. Elements are designed and engineered to make possible a complete integration—structurally and visually—within any type of project. Steelbilt offers the designer free reign in the use of large areas of glass. Be it a single window or doorwall unit, or a complex integrated scheme, Steelbilt will translate the designer's ideas into **efficiently functioning product.**



• The above is a page from Steelbilt's 1954 catalog-brochure. You will find much of interest in it. Please write for your copy.

Steelbilt, Inc., Gardena, California

STEELBILT

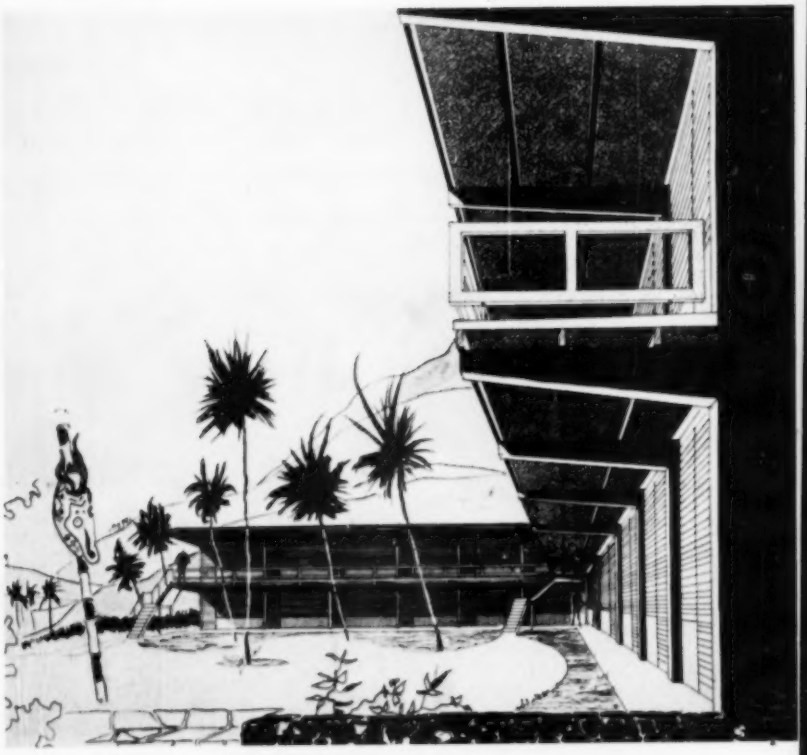


Office Building for Standard-Vacuum Oil Company, Saigon, Indo-China: Chauncey W. Riley, Architect. This dramatic reinforced-concrete structure is both air-conditioned and sun-shaded by louvers, to counteract intense heat. The upper floor is planned for executive apartments, which may be used as offices when housing conditions in that area have improved.

Delineator: Vincent Furno

Annex for the Riviera Hotel, Port-au-Prince, Haiti: John Evans, Architect; Frederic B. Stresau, Landscape Architect; Homer Shrewsbury, Interiors. Designed to provide small rooms for the growing tourist trade, this building shows an interesting use of materials. The frame is reinforced concrete, consisting of a series of identical bays. Glued, laminated, wood beams span the framing elements, and mineralized, wood-fiber, soffit slabs 3" x 2'8" x 8' cut down tremendously on vibration and noise.

Delineator: John Evans

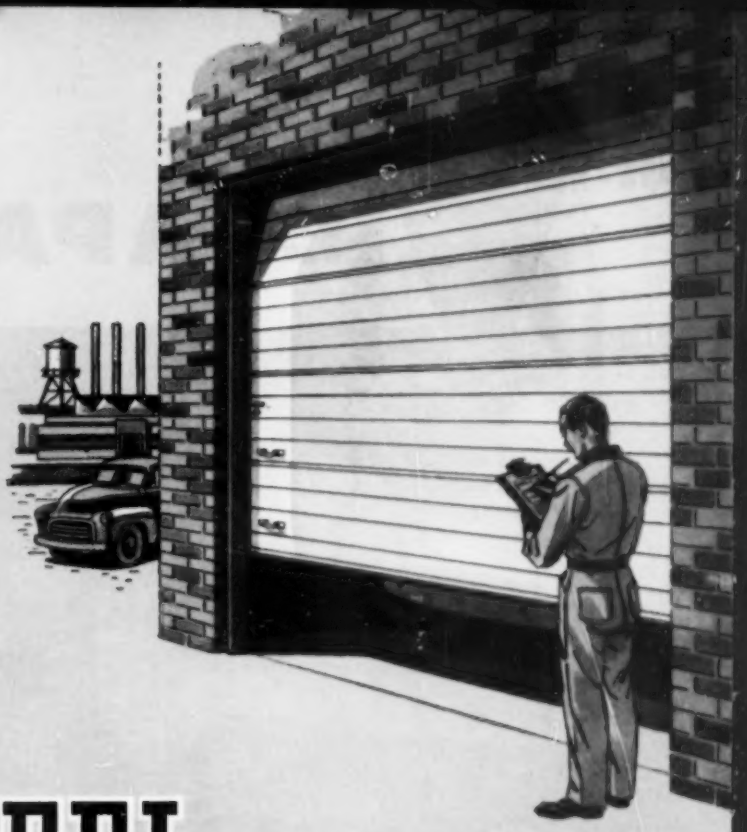


U.S. Army Headquarters Building, Canal Zone, Panama: Edwin T. Reeder Associates, Architects-Engineers. The program behind the design of this building is somewhat "Confidential"; all we know about it is that the structure is reinforced-concrete frame with floors poured over pan forms. The main entrance (not shown) *is surrounded by a large clay-tile screen, which allows free circulation of air through the building.*

Delineator: Will J. Green

THE
FIRST
ALL-STEEL
DOOR

WITH THE
FAMOUS
Crawford
MARVEL-LIFT
MECHANISM



THE NEW
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BY
Crawford . . .

This door provides a combination not hitherto available—a modern steel door with the installation and operating advantages of the famous Crawford Marvel-Lift Mechanism.

It also provides all-steel construction at prices only slightly higher than wood construction. All-steel construction also has definite advantages in alleys and remote areas where fire and burglar protection are factors.

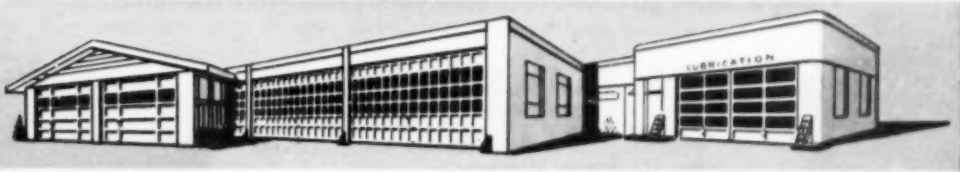
The All-Steel Door is a series of box sections built up from pans of rolled steel welded to box members at the top, bottom and sides and within the span. Outside is flush with horizontal lines giving clean, smart, modern appearance. It is protected on both sides by zinc chromate primer over cleaned metal. Finish paint coat can be applied when convenient, after installation.

Smooth, easy operation is assured by the Crawford Marvel-Lift Mechanism. Dual chain hoists mounted on a *single, full-width shaft* guarantee equal lift on BOTH sides of the door and no jamming or binding. Operation is faster than steel curtain doors.

Hardware is heavy duty throughout and is stoutly fastened. Installation is neat, compact, simple. Service and parts are always available locally.

All-Steel Doors are available in any width up to 14′0″. Heights range from 7′0″ to 14′0″ in 6″ steps. For more information call your local Crawford Door Sales Company, listed in the Yellow Pages under DOORS.

Crawford MARVEL-LIFT Doors



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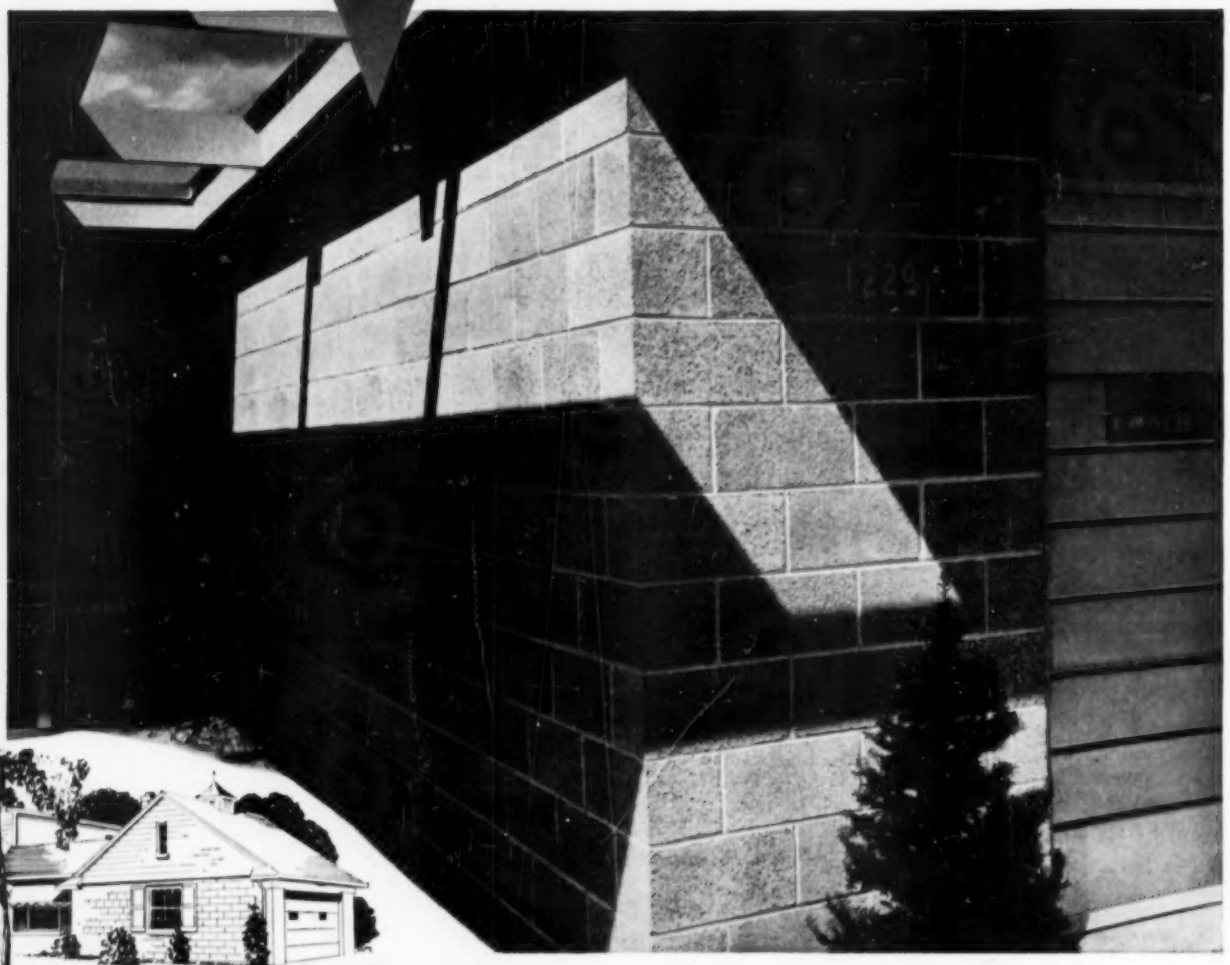

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major building type

Dear Editor: Ironically, the November issue of P/A arrived while I am "enjoying" an indeterminate period of forced inactivity at the hospital. It is amazing how much more thoroughly you can absorb such an excellent issue and such a timely one.

I am glad to note that P/A continues to recognize the importance of hospitals, which together with schools, are the major building types with which most of us over the years will be primarily concerned professionally. JOSEPH A. MCGINNISS
New York, N.Y.

interesting designs

Dear Editor: I have read your November '53 articles of P/A about rural hospital construction, which I enjoyed much.

Through this magazine, I would like to congratulate Architects Skidmore, Owings & Merrill for those very interesting designs of the New York hospitals.

LUIS C. BARROW
New York, N. Y.

professional sympathy

Dear Editor: That was a very fine piece you had in P.S. for November, which I have been reading when I should have been writing a piece about Building Committees until I got my annuities paid up.

Yours was a very good article indeed. My conscience would not let me rest until I told you so because I disagreed with what you said about Frank Lloyd Wright in September; not because it wasn't true but because you forgot (at least it seems to me) that it is useless to expect a genius to be nonarrogant, or invariably in good taste, or particularly kindly to his colleagues. They never have been, in any profession. The big thing about a genius is his geniusness—not whether or not he irritates the hell out of you and me and everybody, every now and then. This is not a very lucid statement, but I do not have time to polish it up as I have to get back to brooding over Building Committees.

But to get back to your P.S.; it fascinated me because I too travel about the country exhibiting my too-extensive vocabulary and having, in a modified way, the experiences you have. The longer I do it the more thoroughly convinced I become that architects are nicer than people. I have met up with them from New York to Colorado Springs and from Toronto to Miami Beach and they are a fine set. Furthermore, there seems to be some sort of law that architects have to marry good looking women. This is one of our better laws.

A peculiar thing is happening in architecture right now—some of the writing in architectural journals is getting very good indeed. ROGER ALLEN
Grand Rapids, Mich.

the new "Team"

Dear Editor: I have just read the WASHINGTON PERSPECTIVE of Frederick Gutheim. Is Gutheim aware of the fact that there is a new "Team" in Washington and that the philosophies of the previous Administration are no longer acceptable to the great majority of the people of this country? EARL HEITSCHMIDT
Los Angeles, Calif.

great potentialities

Dear Editor: I think Gutheim's new column has great potentialities. The one for December is in fine contrast to the slippery hog-wash about the Administration's attitudes toward housing that is being generally circulated. There is too damn much "hoping for the best" going on, when it should be obvious that what we will get (if that hope prevails) is the worst. HENRY S. CHURCHILL
New York, N.Y.

not wilfully wicked

Dear Editor: Quoted under the "Mexican Critique" by Sibyl Moholy-Nagy in your November issue, "Must the unhappy example of Pittsburgh's Cathedral of Learning, with its chocked elevators and jammed stairs, be repeated?"

I certainly hope not. I remember that years ago I sat on the convenient parapet circumventing the fountain in front of the Carnegie Museum, and laboriously sketched in pencil the steelwork, one-third completed on this monstrosity or atrocity (whichever descriptive you may wish to choose), although I do not believe that the architects were wilfully wicked when they conceived and brought about this awful thing.

All that I remember is that Hank Jandl (who won the Paris Prize in '35, I believe), Bob Law, one of the best in our class, Johnny Garnes, myself, and the rest of the class, under the guidance of Henry Hornbostle, himself, used to refer to this unfortunate adventure in architecture as "The Backhouse of Schenley Park." GEORGE E. TINGLEY
Guilford, Conn.

down to each comma

Dear Editor: Articles about specification writing are apt to be a bore, and generally are among the items skimmed over when one is already sated by literature of all sorts. It so happens, however, that Ben has the gift of putting zest, interest, and humor into a subject which is usually dry. I read his articles down to each comma and congratulate P/A on having this feature. MORTIMER E. FREEHOF
New York, N.Y.

(Continued on page 16)

p/a views

(Continued from page 15)

delightful touch

Dear Editor: I welcome SPEC SMALL TALK by Ben Small. It is worthwhile interesting, and has a delightful touch—the latter so greatly needed in this subject.

Specifications are coming of age, and now that they have arrived, they can be joked about. As Ben said, most architects avoid specifications like the plague. Why—when we all know that specifications are just as important as the drawings? The reason—"What we don't know about frightens us."

Now, more and more young architects know about specifications, as the schools are more and more including specifications as a part of their curricula. To these men, specifications hold no terror.

By tackling the subject with this light touch, Ben will do much to encourage the young and maybe influence the old not to shy away from specifications. Please keep Ben going.

HAROLD R. SLEEPER
New York, N.Y.

witty and informative

Dear Editor: Far from having neglected to read Ben John Small's specification column, I have devoured it, recommended it to all my friends, and have congratulated the writer.

Witty, informative, and delightful, it is a charming addition to P/A.

ELISABETH COIT
New York, N. Y.

good reading

Dear Editor: It is good to see architecture approached from still another point of view—in this case a usually underrated one—and Ben certainly makes good reading.

ROBERT W. MCLAUGHLIN, Director
School of Architecture
Princeton University

old enough to know better

Dear Editor: The buildings that are published in P/A are too extreme in their contemporary design to please me.

I have been a subscriber to this magazine, which used to be called *Pencil Points*, for 30 years and some of my work has been published in it, as well as a picture of myself taken in my office about 18 years ago.

Most of my work has been, and still is, residential and I have built up a reputation for designing country houses, small suburban retail shops, etc., in a design that is reminiscent of our early American 18th Century.

I am particularly interested in the restoration of old buildings, especially those that have historic background, and cannot find enough data to begin to satisfy this appetite.

Most of the houses designed today, even by architects who are old enough to know better, are terrible examples of a blind groping to try and find some new style that will not live.

What they thought was good design in 1935 was out of date by 1950, and what they think is good now will be dead by 1965!

JOHN WM. KEYES
Philadelphia, Pa.

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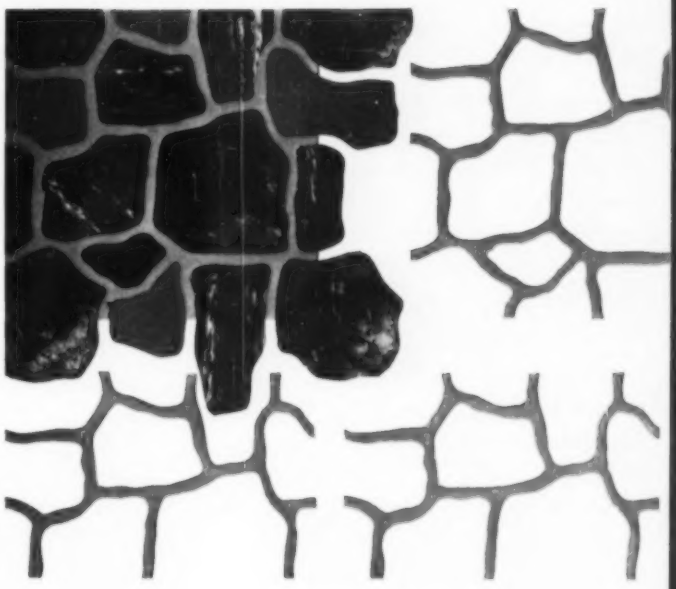
This modern interior shows the handsome custom-designed look of Armstrong's Flagstone Asphalt Tile. It's an excellent choice for restaurants, clubs, and many other commercial projects—and it adds the appeal of individual distinction to on-grade slab ranch-type houses, basements, and open-style living areas. It's an ideal floor in the remodeling field, too—especially for converted garages, enclosed porches, all-purpose rooms, and commercial redecoration.



EASY INSTALLATION is made possible by square 18" x 18" grids into which the shaped, precision-cut tiles fit. In this view, the grids are shown separated for clarity. When installed, the tiles along all sides of the grid interlock with the adjoining grid. This new technique permits "Flagstone" to be installed quickly and economically. No special tools are needed, and the floor is laid at labor costs comparable to custom-designed floors of square tiles.

To see all three colorings in Armstrong's Flagstone Asphalt Tile

TURN THE PAGE

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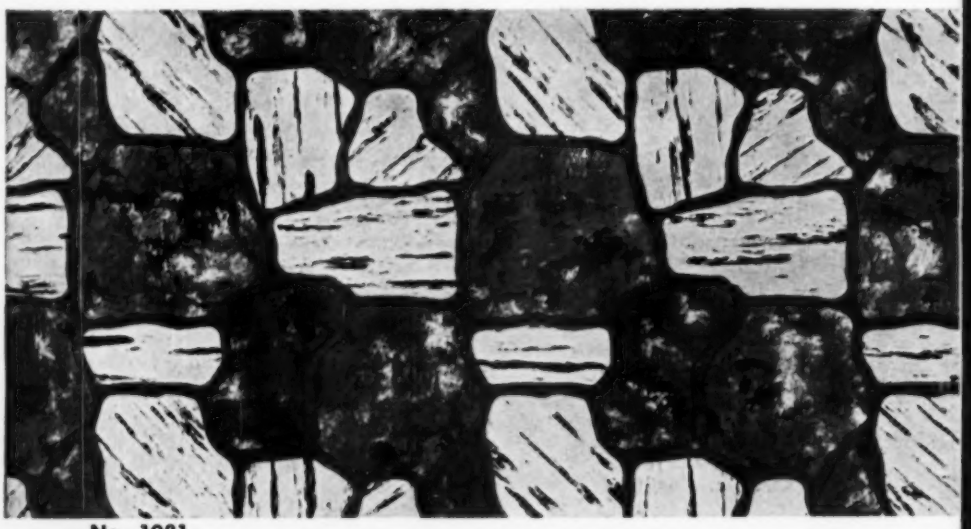

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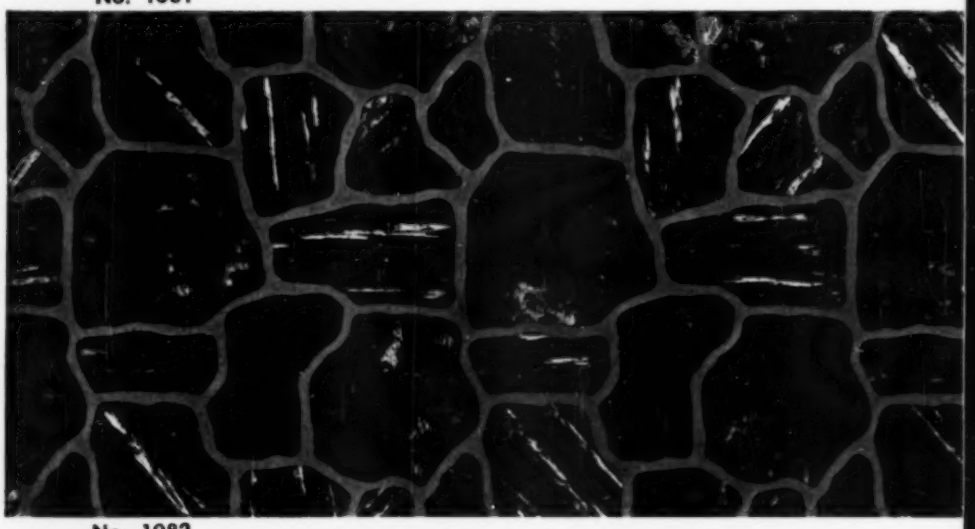

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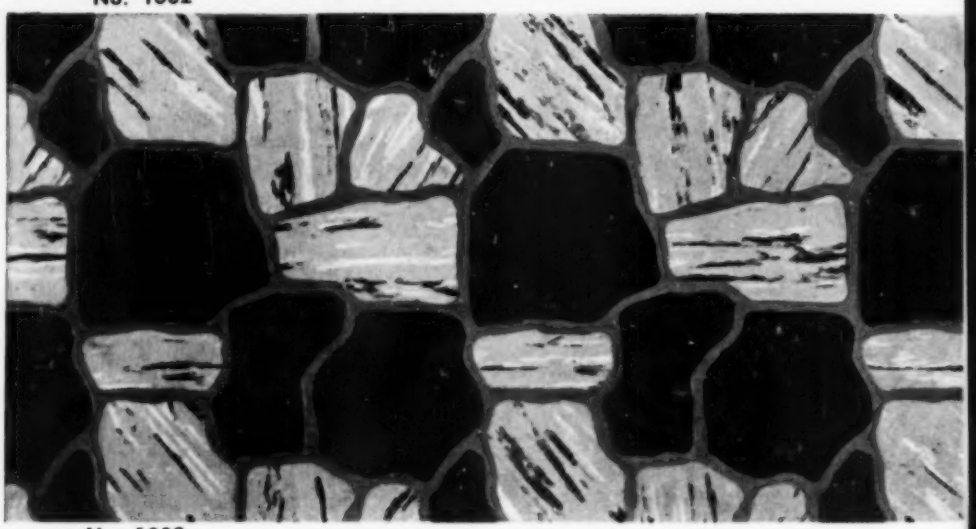

No. 1080

new offices, partnerships

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J. WHITNEY CUNNINGHAM, J. FRANKLIN CLARK, JR., and FRANK B. POOLE, JR., Architects, associated as J. WHITNEY CUNNINGHAM, CLARK & POOLE, 108 Jackson St., Kingstree, S. C.

STEVE MUCHEMORE announces organization of S. E. MUCHEMORE ASSOCIATES, Consulting Engineers, P. O. Box 1166, Stamford, Conn.

LEO S. HIRSCHFELD and HAROLD S. PAWLAN, associated as HIRSCHFELD & PAWLAN, Architects, 327 S. La Salle St., Chicago 4, Ill.

KARL KRAUSS, JR., Architect, Route 1, Box 88B, Traverse City, Mich.

KURT GROSS and FRED MARBURG associated as KURT GROSS, FRED MARBURG, Architects, 390 Park Ave., San Jose, Calif.

REISNER & URBAHN announce that the firm name has been changed to: REISNER, URBAHN, BRAYTON & BURROWS, Architects, 654 Madison Ave., New York 21, N. Y.

WILLIAM SHINDERMAN, Architect, 110 N. Doheny Dr., at Wilshire Beverly Hills, Calif.

ROBERT W. GIBELING, Architect, 157 Peachtree St., N.E., Rm. 215, Atlanta, Ga.

WM. GLENN BALCH, LOUIS L. BRYAN, JOHN LORING PERKINS and W. K. HUTCHASON, Architects, associated as BALCH, BRYAN, PERKINS, HUTCHASON, 2933 Rowena Ave., Los Angeles 39, Calif.

ALFRED WATTS GRANT, Architect, 1669 Broadway, Denver 2, Colo., announces a branch office at: Vineland District, Route 50 at 35th Lane, Pueblo, Colo.

JOHN K. DUKEHART, PAUL H. WALLWORK, ELIZABETH P. KINNE associated as DUKEHART, WALLWORK & KINNE, Architects, 2311 N. W. Irving St., Portland 10, Ore.

WALTER HENNING, Architect, 831 Via De La Paz, Pacific Palisades, Calif.

ARTHUR O. REDDEMANN and KENNETH I. C. KNUDSON associated as REDDEMANN-KNUDSON, Architects, 3420 W. Center St., Milwaukee 10, Wis.

CHARLES PORTER, ROBERT STEINWEDELL, Architects, 434 Jackson St., San Francisco, Calif.

HARRY J. HARMAN, Architect, WILLIAM A. COHEN, ARTHUR LOWENFISH associated as HARMAN ASSOCIATES, 1860 Broadway, New York 23, N. Y.

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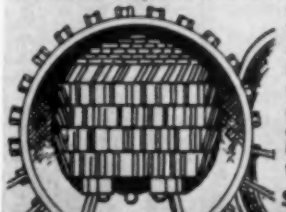
It is the intent of these specifications to require a treatment that will insure permanency and non-corrosiveness of both toxic and fire retardant chemicals equal to the Pyresote treatment as offered by the Protexol Corporation, Kenilworth, New Jersey.



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NORTON POLIVNICK, Architect, 1225 Bannock St., Denver, Colo.

WARD BEAUMONT WHITWAM, Architect, 22021 Kresge Bldg., Sioux Falls, S.D.

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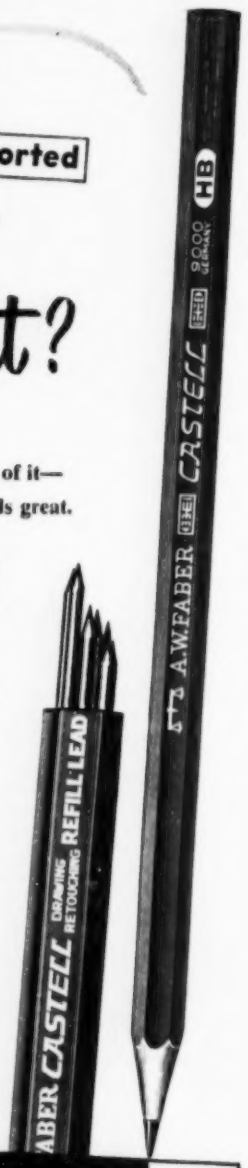

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JAMES S. LIBERTY, Architect, Main Bldg., Medical Arts Sq., 801 Encino Place, N.E., Albuquerque, N. Mex.

ROBERT F. STUHR and JAMES M. HICKS, JR., Architects, associated as STUHR & HICKS, 924 Truxtun Ave., Bakersfield, Calif.

ROBERT LAW WEED announces the architectural-engineering firm of ROBERT LAW & ASSOCIATES will henceforth be known WEED, RUSSELL, JOHNSON ASSOCIATES, 550 Brickell Ave., Miami, Fla.

new addresses

DESIGN RESEARCH, INC., 57 Brattle St., Cambridge, Mass., is Greater Boston's newest center for contemporary home furnishings. The showroom and offices were opened in October.

SOIL TESTING SERVICES, INC., has announced the opening of new offices and a testing laboratory at 3529 N. Cicero Ave., Chicago 41, Ill. Activities of the firm are directed by John P. Gnaedinger, president, and Carl A. Metz, vice-president. Other sales offices of the company are at 1844 N. 35 St., Milwaukee, Wis.; and 1105 E. James St., Portland, Mich.

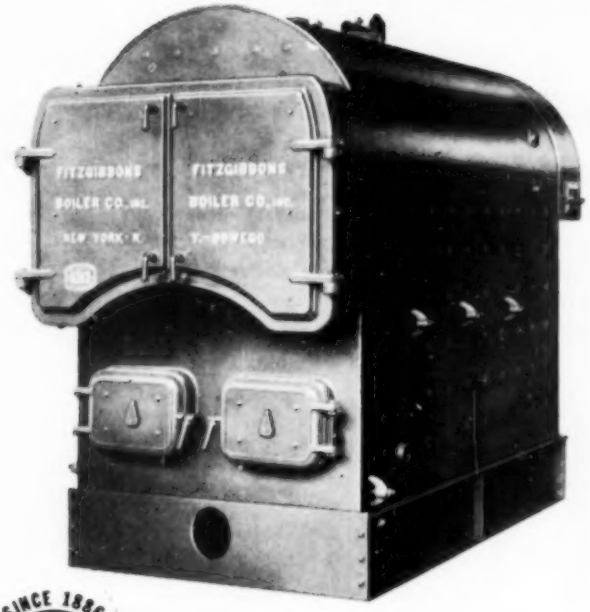
architectural historians

The annual meeting of the SOCIETY OF ARCHITECTURAL HISTORIANS will be held in Philadelphia, Jan. 28-31, at the Bellevue-Stratford Hotel. For further information write; Dr. David Robb, School of Fine Arts, University of Pennsylvania. Philadelphia 4, Pa.

On Saturday, Jan. 30 a special program has been planned for architects. In the morning at the hotel, there will be a session on "Architectural Practice" with HENRY-RUSSELL HITCHCOCK, president of the Society as Chairman. Speakers will include: JAMES ACKERMAN University of California; TURPIN BANNISTER, University of Illinois; CHARLES E. PETERSON, National Park Service; WINSTON WEISMAN, Pennsylvania State College. The afternoon program will be concerned with the restoration, repair and upkeep of historic buildings and is limited to 50 people. Those wishing to attend this program should write to: SYDNEY E. MARTIN, Chairman, 1701 Sansom St., Philadelphia 3, Pa.

THE NEW LORD & TAYLOR STORE IN WEST HARTFORD, CONN.
Architect: Irving W. Rutherford, Hartford, Conn.
Consulting Engineer: Harry H. Bond, New York, N. Y.
Heating Contractor: Eugene J. Brandt & Co., Inc., New York, N. Y.

As modern as the store it serves



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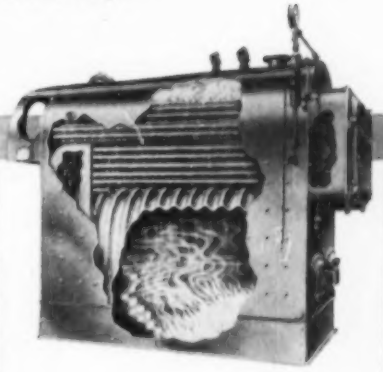

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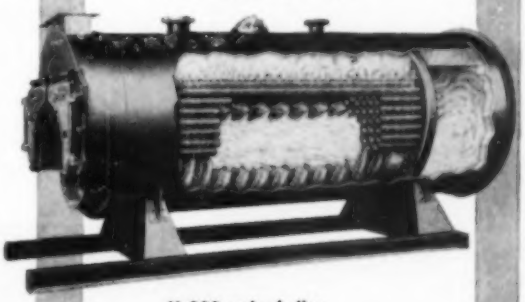

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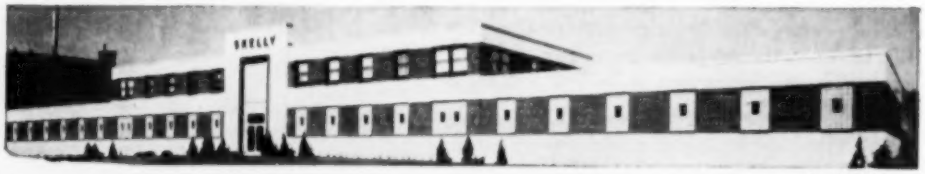

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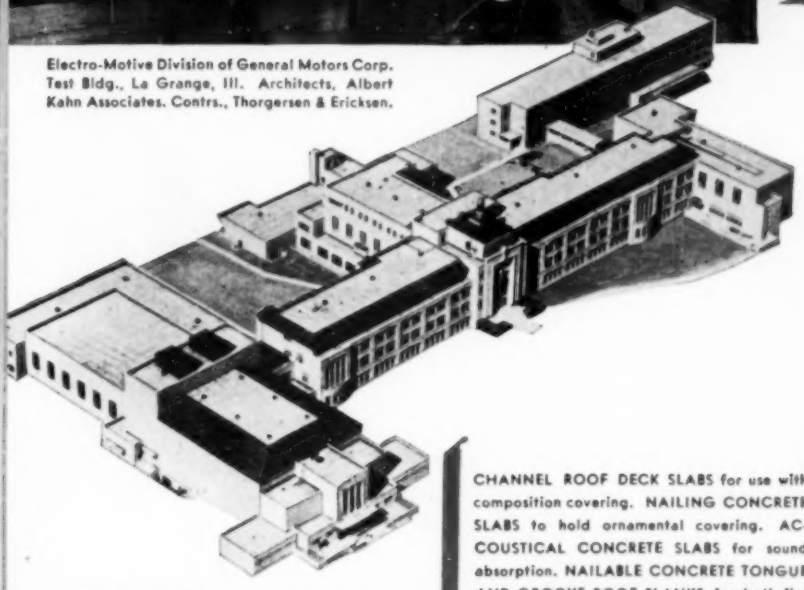

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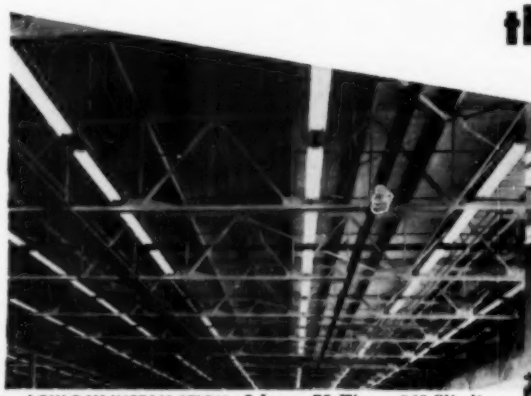

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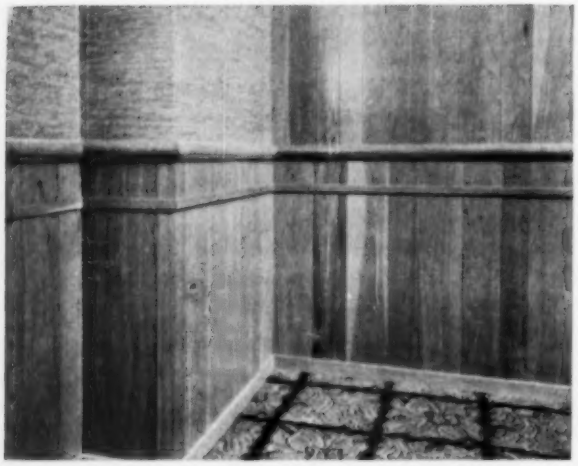

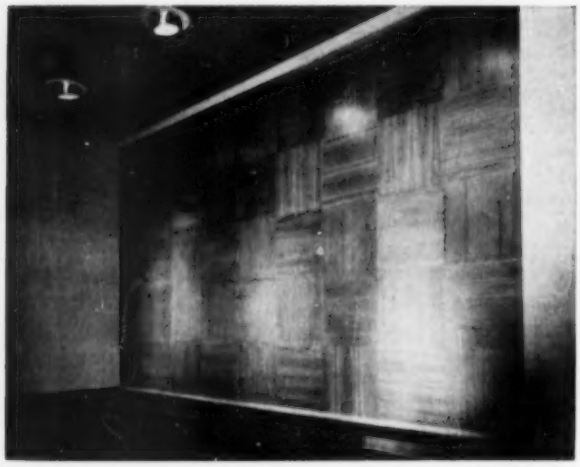

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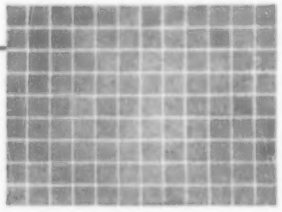

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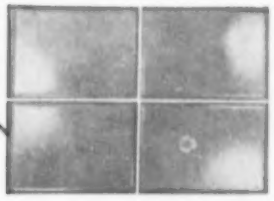

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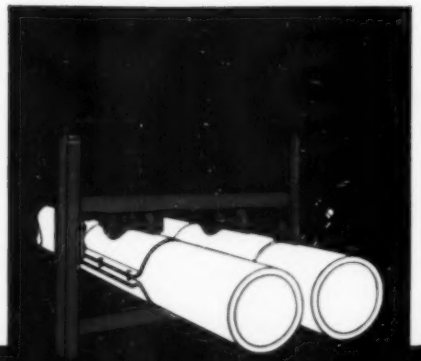

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Thousands of feet of piping and conduit were racked with UNISTRUT steel channel and fittings in the new Joint Sewage Treatment Plant serving the twin Michigan cities of Benton Harbor and St. Joseph. In one small area alone, over 20 tons of overhead piping were supported by UNISTRUT concrete inserts and pipe hangers.

The UNISTRUT framing system consists of steel channel members, concrete inserts, pipe rollers, brackets, clamps and fittings which are bolted together to form a trim framework of mechanical supports.

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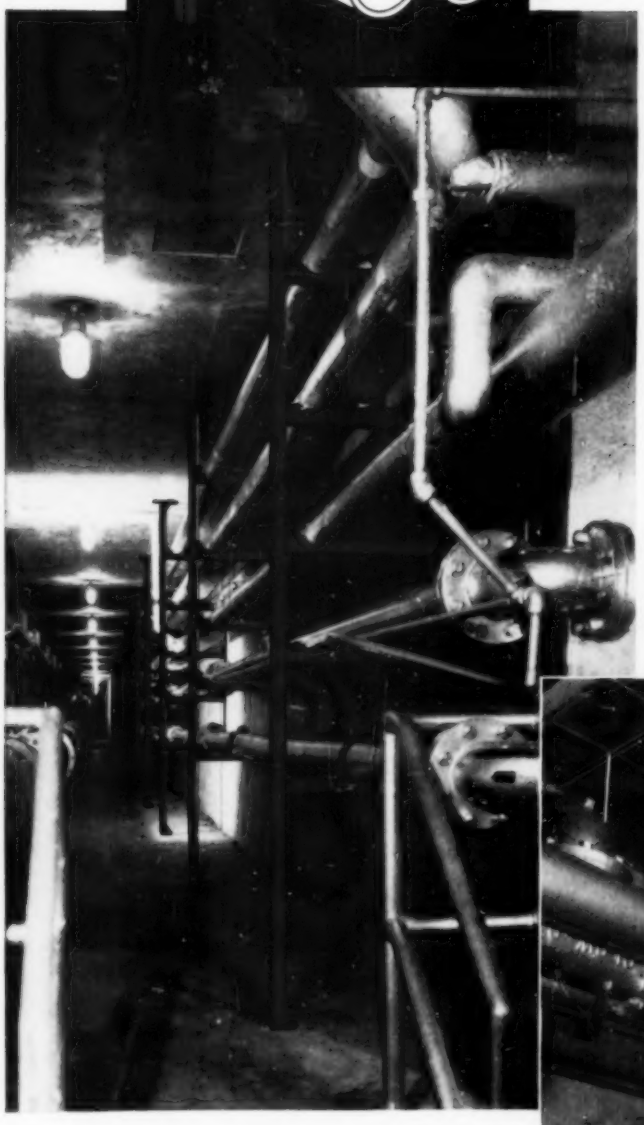
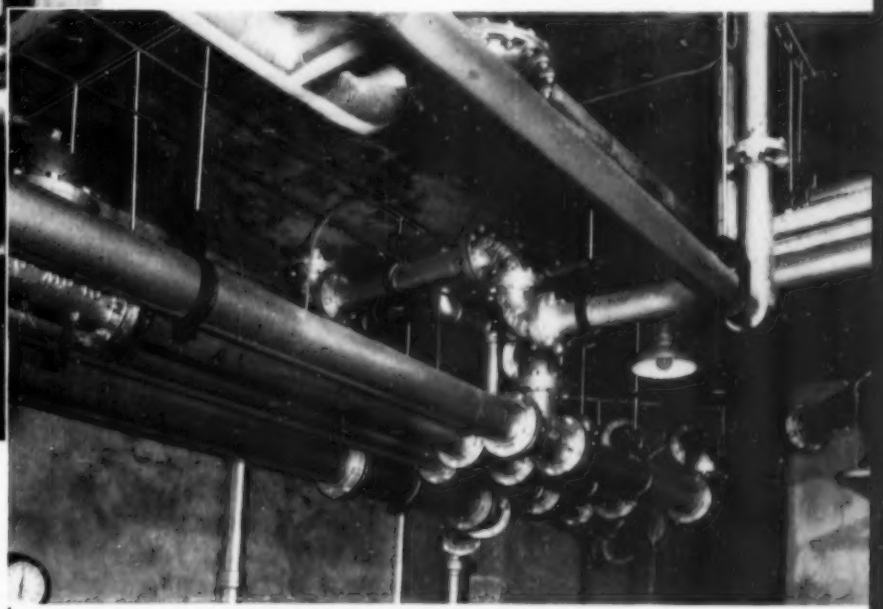


Water, gas, air and sludge lines racked on UNISTRUT stanchions. Concrete inserts have slot with sliding nut so fittings can be bolted in position desired.



Part of large overhead piping installation where over 20 tons of lines are suspended by UNISTRUT concrete inserts and pipe hangers.

U. S. Patent Numbers
2327587 2363382 2405631
2329815 2380379 2541908
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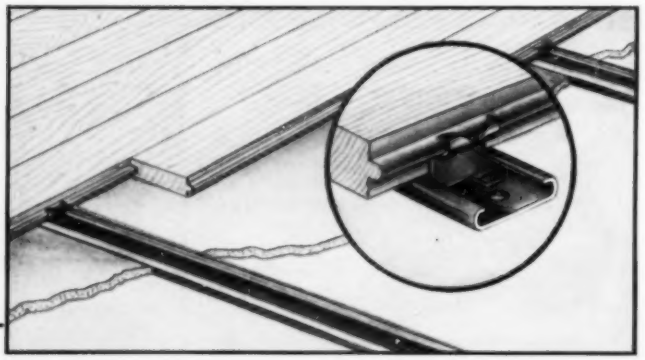

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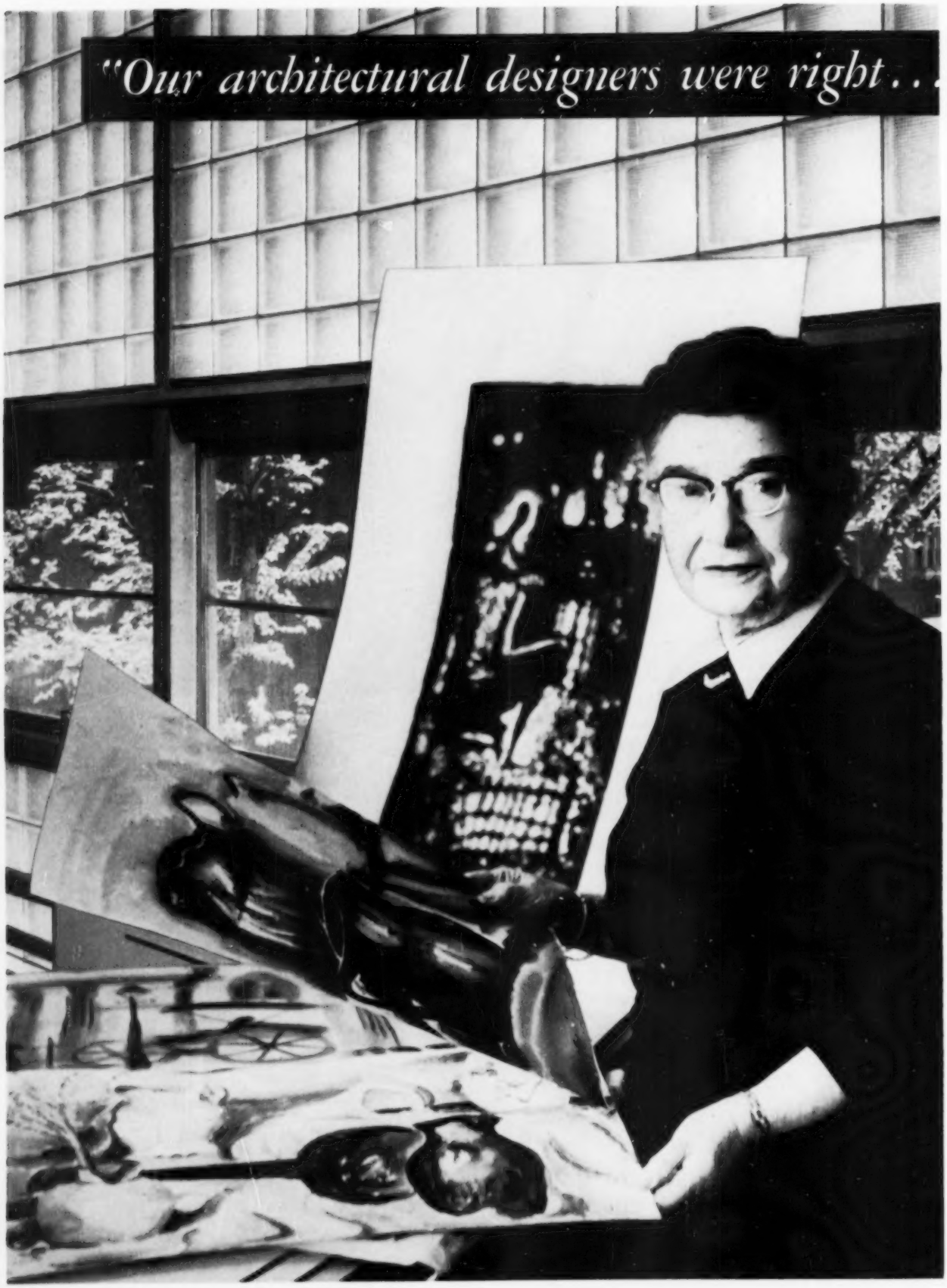
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says ***Charlotte Partridge****, Director, Layton School of Art, Milwaukee, Wisc.*

When talking fenestration, officials of the Layton School of Art asked for two things: 1) superb daylighting, an essential for any art project and 2) handsome appearance, because an art school building should embody the principles of good design.

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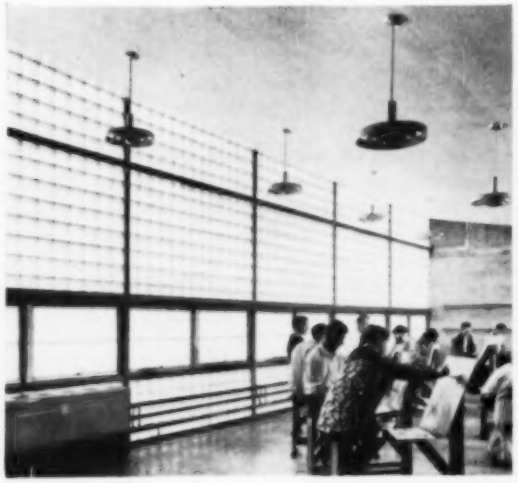

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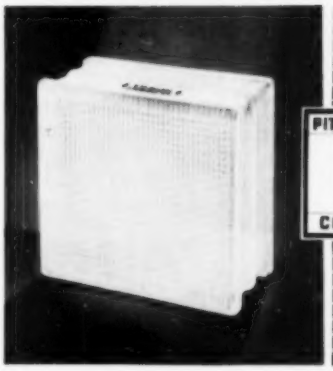

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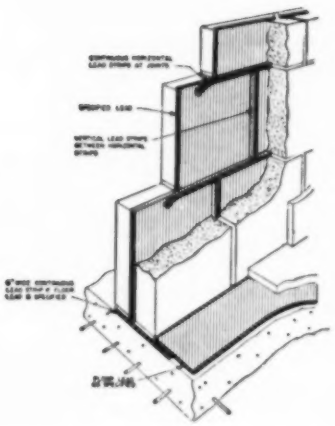

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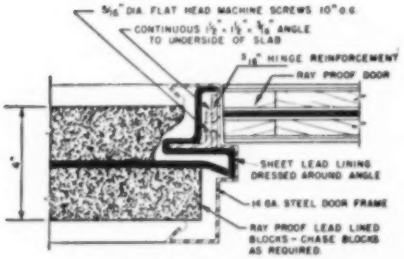
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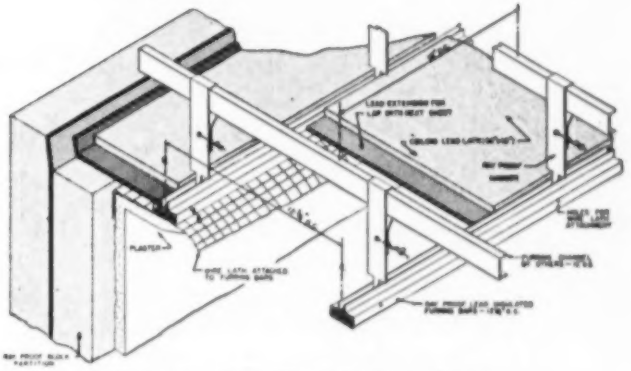

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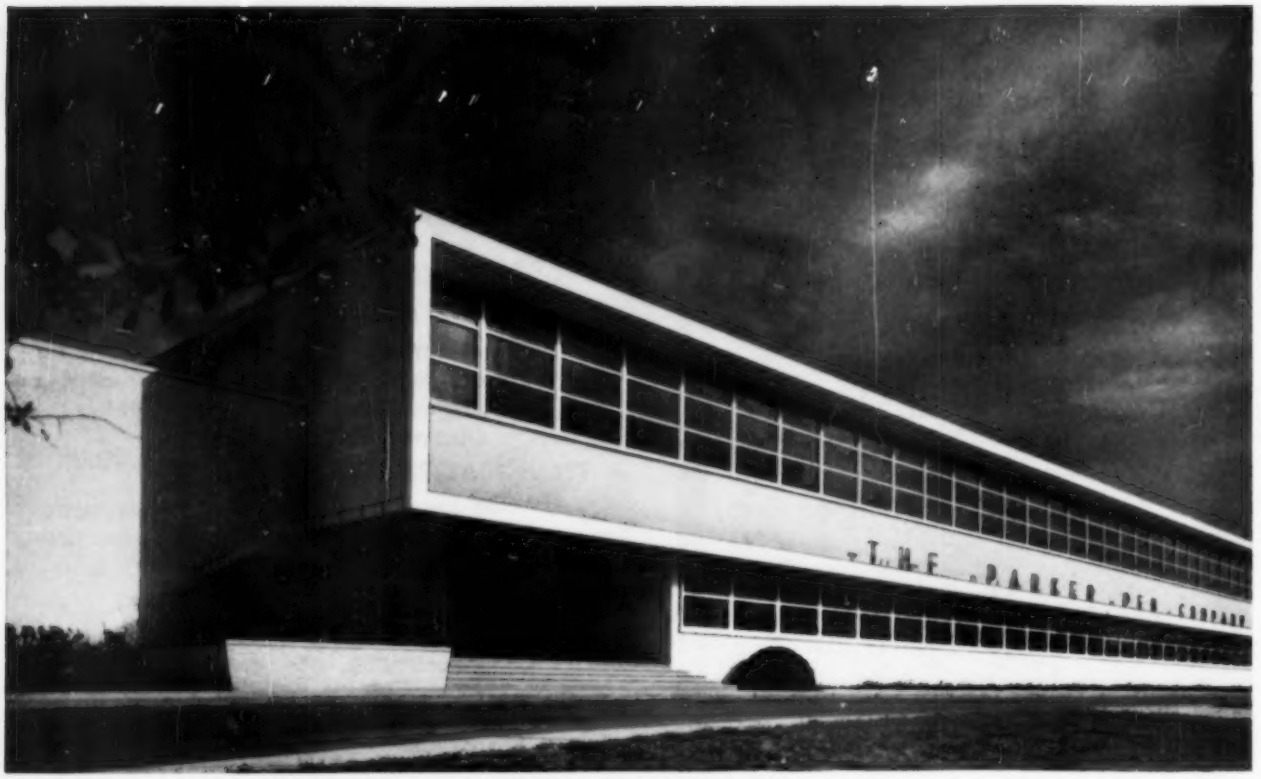

The Parker Pen Company's new Arrow Park plant at Janesville, Wis. Architects: John J. Flad & Associates, Madison, Wis. Mechanical Engineers: Beling Engineering Consultants, Moline, Ill. Heating Contractors: Hyland Hall Co., Madison, Wis.

How Honeywell Customized Temperature Control can help you

Give your clients the "working climate" they've always wanted

Why Honeywell Customized Temperature Control is becoming a must for all types of buildings

"Working climate," as important to the success of your clients' business as black ink in the ledger, is made up of a lot of things.

The handling of personnel, proper lighting, vacations with pay, temperature and humidity control are a few of them.

And the best way to provide proper temperature control is through use of *Honeywell Customized Temperature Control.*

The key word here is "customized." It means that whatever your clients' control requirements, a Honeywell Customized Temperature Control installation, *designed to fit the needs of the building and its occupants* is your answer. This applies not only to heating and cooling, ventilation and humidity control, but to industrial control as well.

Only Honeywell can provide true "customized" control. Because only Honeywell manufactures all three types of controls—pneumatic, electric and electronic—which often must be integrated in a single building to give you the right performance.

The story, in capsule form, of the Honeywell Customized Temperature Control installation in Parker Pen's new plant in Janesville, Wisconsin, is told by floor plan and picture captions opposite. They tell how specific occupancy, use and exposure problems were met—to provide an ideal "working climate."

The *techniques* used, applied to your particular problems and the problems of your clients, can help you give your clients even better performance by providing the "working climate" they've always wanted.

For comfortable, even temperature in new or existing buildings—of any size—use Honeywell Customized Temperature Control

Whether it's an office, motel, airport, hospital, apartment, church, school, factory, store, garage—or any size building—new or existing, Honeywell Customized Temperature Control can help meet your clients' heating, ventilating, air conditioning and industrial control problems.

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For full facts on Customized Temperature Control, call your local Honeywell office. Or mail the coupon.

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Philip Hull, manufacturing vice-president, the Parker Pen Company, says

"When we planned our new Janesville plant we wanted it to be the best plant of its kind ever built. Certainly the ideal indoor climate Honeywell Customized Temperature Control helps provide has aided us in approaching that goal."

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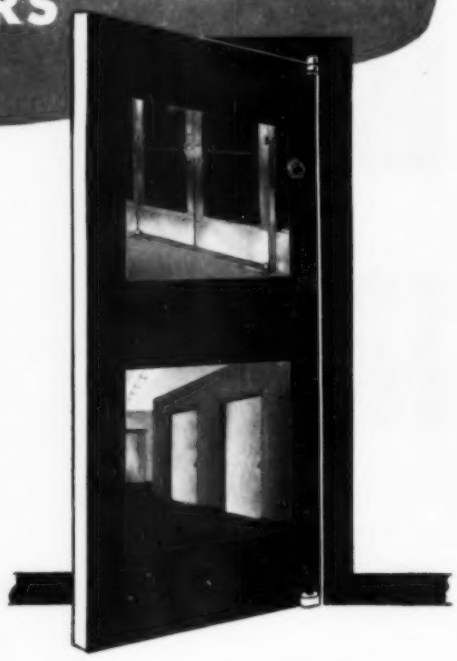

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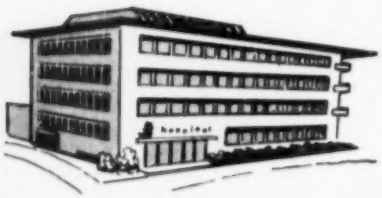

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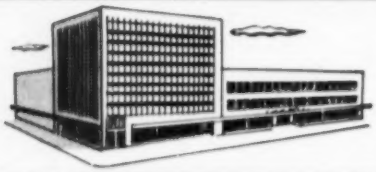

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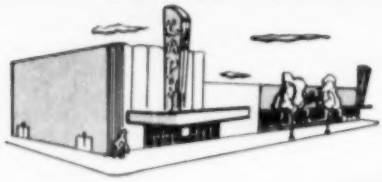

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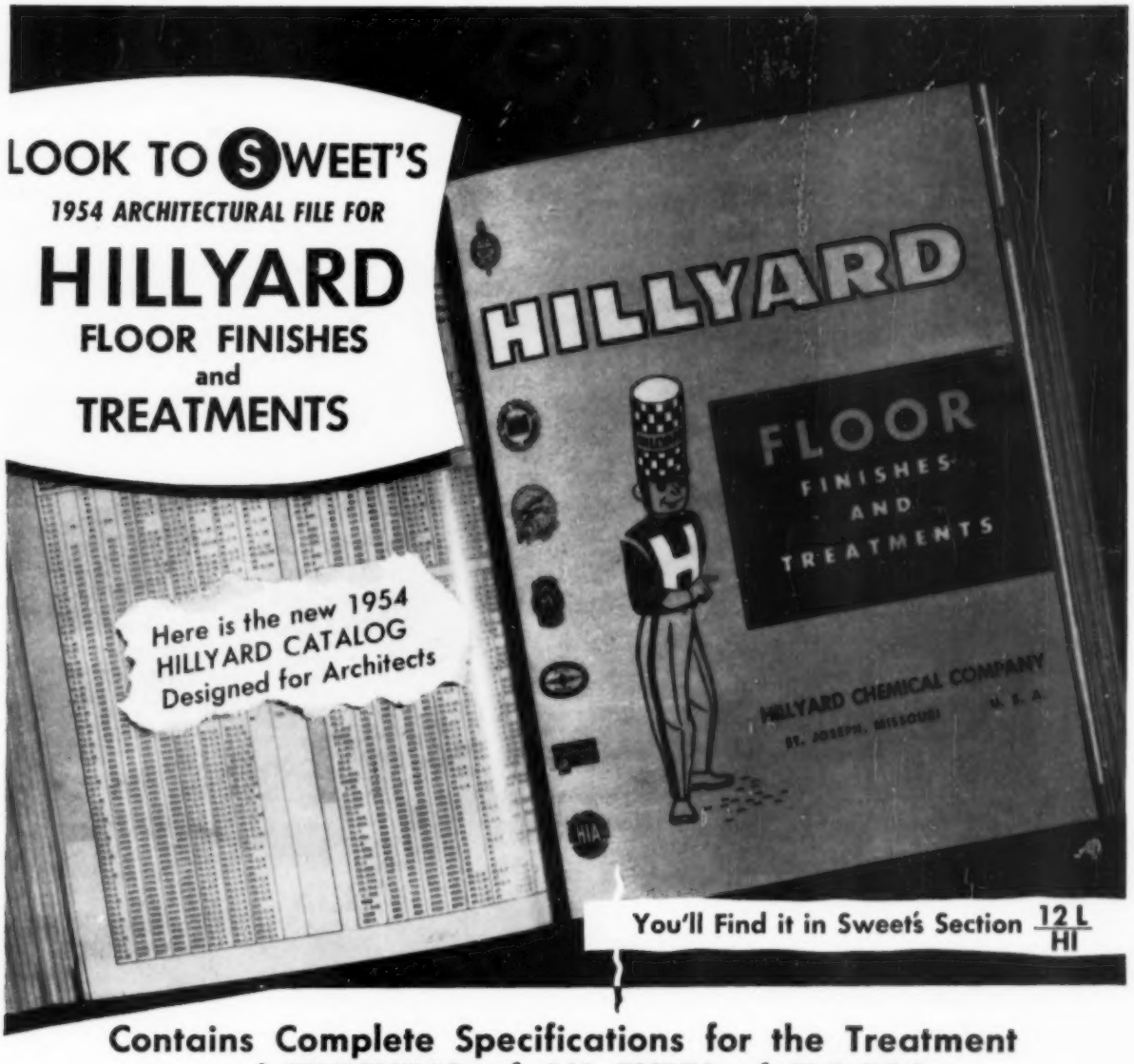

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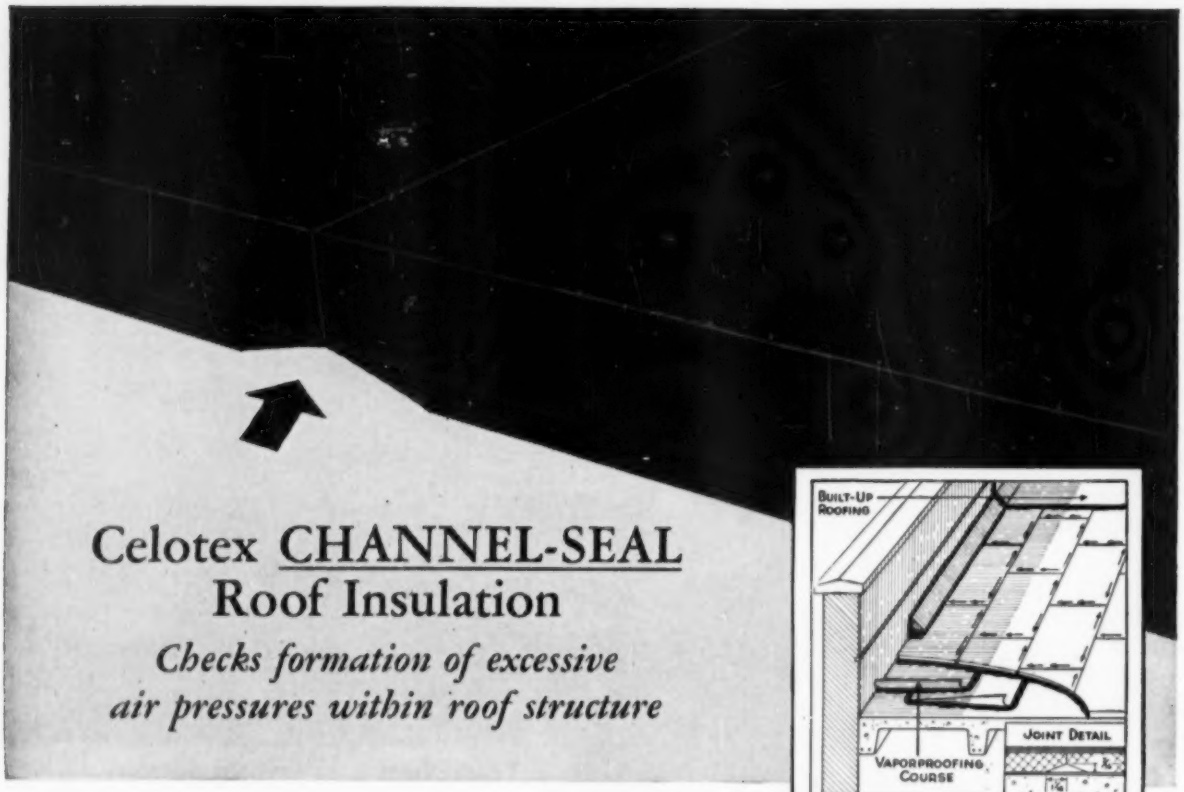

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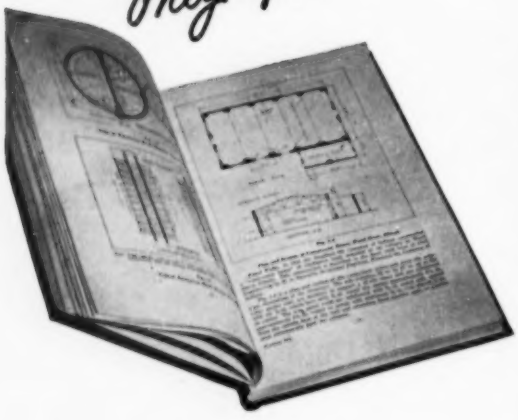

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U. S. RUBBER'S

U.S.RUBBER
SERVING THROUGH SCIENCE

USKON®

electrical heating panels

Uskon electrical heating panels, manufactured by United States Rubber Company, blend perfectly into the ceiling. The ceiling is no longer wasted space—it contains the heating system. Uskon panels are decorative as well—they can be painted over with any flat paint. They completely eliminate radiators, furnaces, boilers, ducts, pipes, valves or fuel storage space, releasing valuable cubage to the disposal of the architect. Approved by Underwriters' Laboratories, Inc.

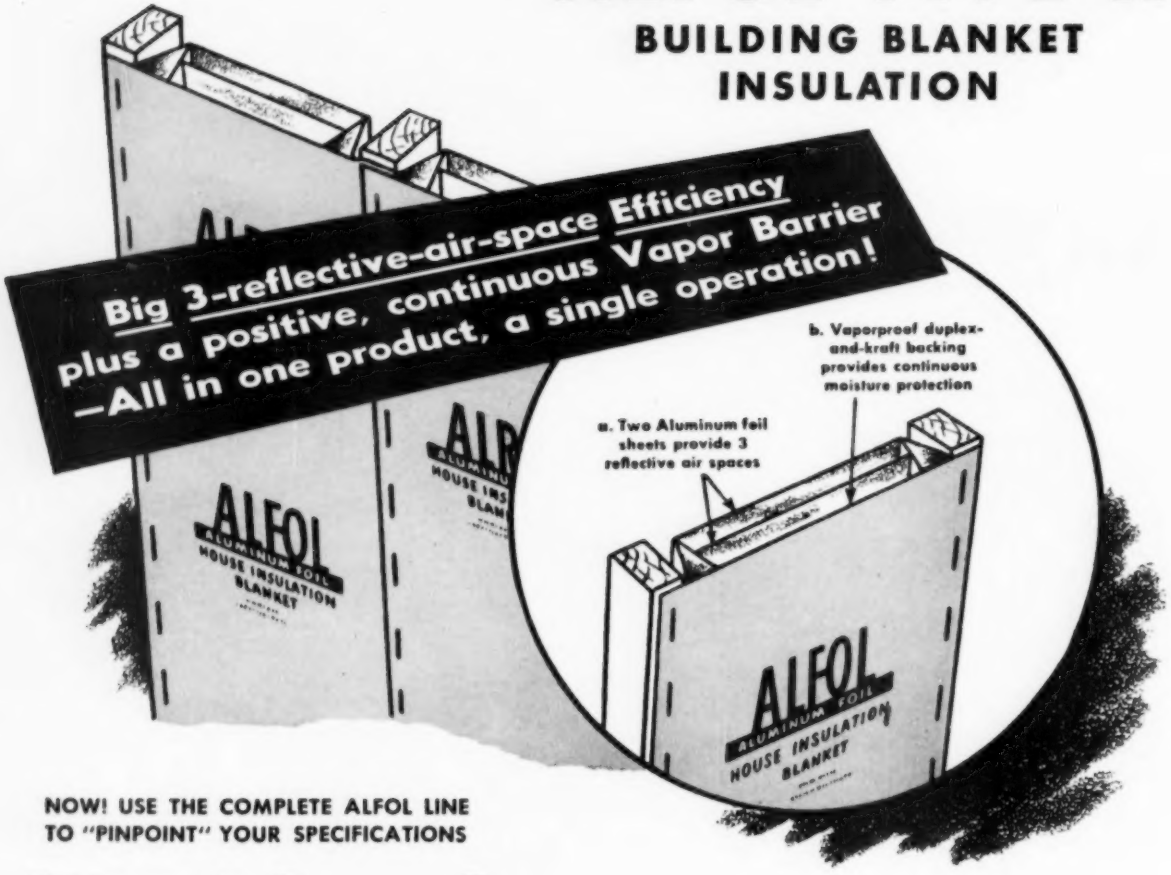
Uskon panels are installed quickly and easily in one room or all rooms, in new homes or old. Uskon has given complete satisfaction everywhere—in apartments, offices, commercial and industrial structures, bathrooms, sun porches, game rooms, garages, basements, motels, summer cottages. For technical data and cost information, write to Mechanical Goods Division, United States Rubber Company, Rockefeller Center, New York 20. N. Y.

***Product of* UNITED STATES RUBBER COMPANY**

ALFOL TYPE II

BUILDING BLANKET INSULATION

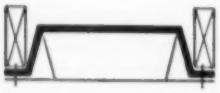
Big 3-reflective-air-space Efficiency plus a positive, continuous Vapor Barrier —All in one product, a single operation!


ALFOL
ALUMINUM FOIL
HOUSE INSULATION
BLANKET
b. Vaporproof duplex-and-kraft backing provides continuous moisture protection
a. Two Aluminum foil sheets provide 3 reflective air spaces

NOW! USE THE COMPLETE ALFOL LINE TO "PINPOINT" YOUR SPECIFICATIONS

ALFOL Type IV—Four reflective air spaces for the utmost in thermal and vapor barrier efficiency.

ALFOL Type III—Three reflective air spaces—ideal for crawl space work, "exposed" ceilings.



ALFOL Type I—Two reflective air spaces—Low cost efficiency, ideal for mild climate use.

ALFOL Type IA—Two reflective air spaces—specially designed for masonry construction.

Here's B-I-G insulation value in a clean, compact "package"—ALFOL Type II. Just 2 aluminum foil sheets and a heavy kraft-and-duplex backing. Yet on down-flow heat, for example, its thermal value surpasses that of even *full-thick* bulk materials! (Authority: U. S. Bureau of Standards.)

And that heavy vaporproof backing, by which ALFOL is applied across stud or joist faces, provides a positive, *continuous* vapor barrier . . . the finest condensation "insurance" obtainable.

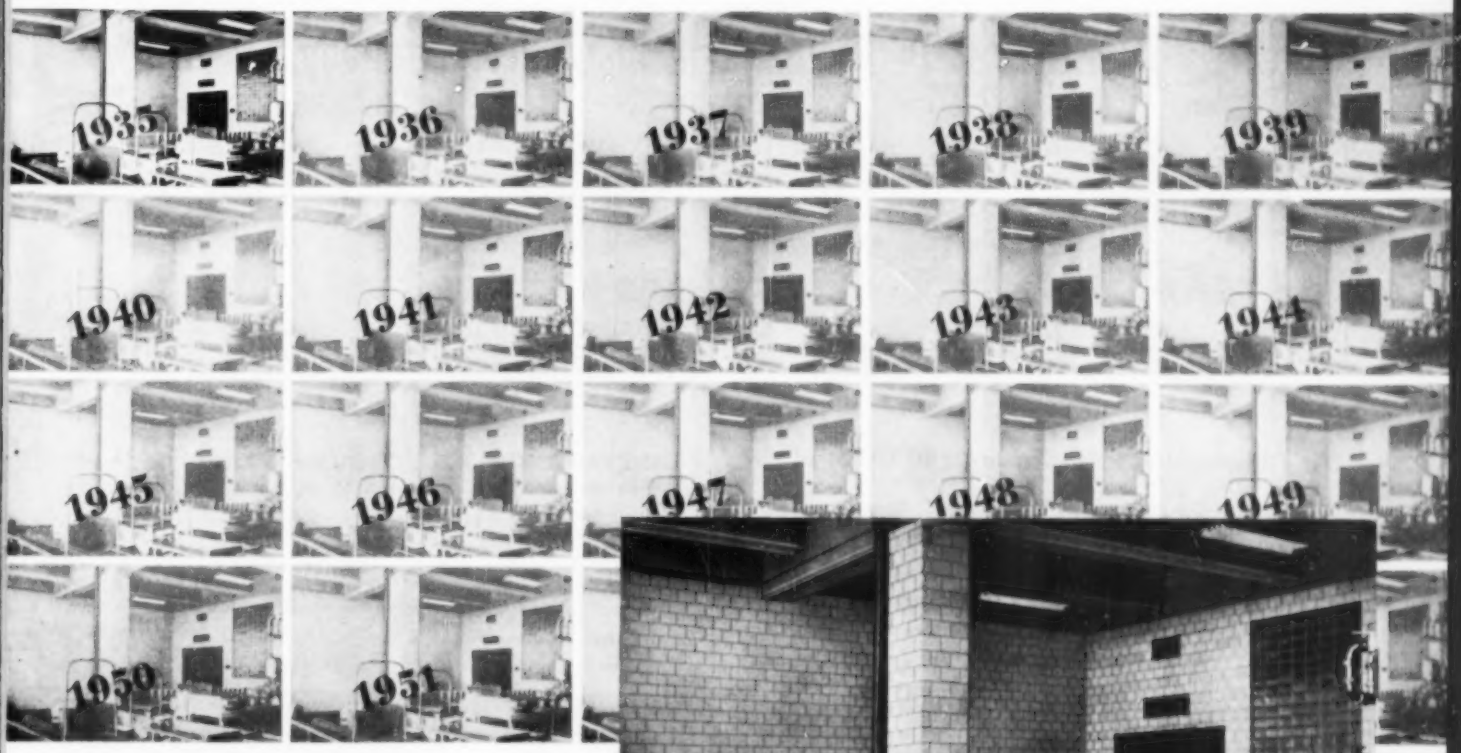
Application is rapid, positive: the aluminum foil sheets space themselves automatically. And ALFOL usually costs less! No wonder it's becoming America's "most-specified" insulation—for commercial, industrial *and* residential use.

For Free Descriptive Literature Address Dept. PA-2

ALFOL
BUILDING BLANKET INSULATION
"FIRST IN REFLECTIVE INSULATION"

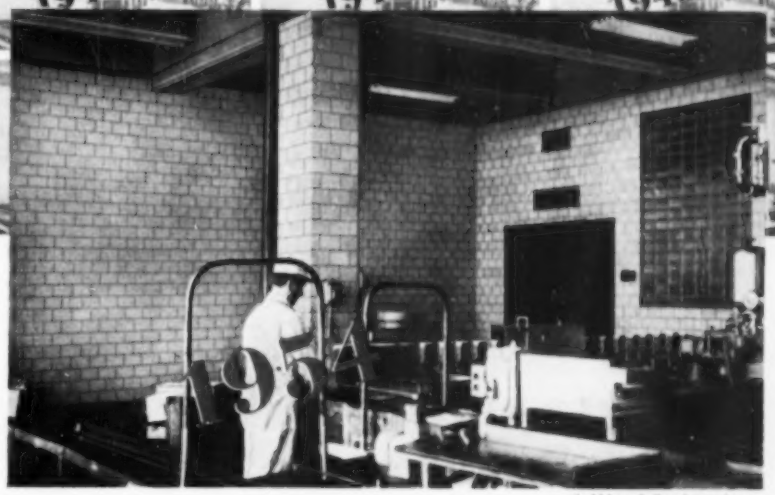
REFLECTAL CORPORATION
A Subsidiary of Borg-Warner
155 EAST 44th ST. NEW YORK 17, N. Y.

where time's verdict counts...



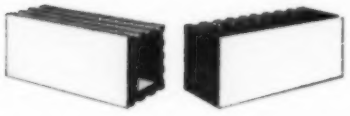
Thanks to walls of glazed Facing Tile, this pasteurizing and bottling room at Sheffield Farms Company's Long Island City plant looks as clean and bright today as it did when the plant opened 19 years ago.

Says Bernard Lynch, Sheffield's head of maintenance, "All of our Facing Tile walls have stood up very well, and they've been easy to keep clean. I have recommended this material highly for our new plants."



Stahldtiet & Zetzsche, architects

use Facing Tile—it's proved by years of varied use!



CHARLESTON CLAY PRODUCTS CO.
Charleston 22, West Virginia

METROPOLITAN BRICK, INC.
Canton 2, Ohio

THE CLAYCRAFT CO.
Columbus 16, Ohio

McNEES-KITTANNING CO.
Kittanning, Pennsylvania

HANLEY CO.
New York 17, New York

NATCO CORPORATION
Pittsburgh 22, Pennsylvania

HYDRAULIC PRESS BRICK CO.
Brazil, Indiana

STARK CERAMICS, INC.
Canton 1, Ohio

MAPLETON CLAY PRODUCTS CO.
Canton, Ohio

WEST VIRGINIA BRICK CO.
Charleston 24, West Virginia

LOOK FOR FTI THIS SEAL

Used only by the members of the Facing Tile Institute, it is your assurance of highest quality. In the interest of better Facing Tile construction the companies listed above have contributed to the preparation of this advertisement

NO REFINISHING COSTS—Glazed or unglazed, Facing Tile saves your clients the expense and inconvenience of redecorating—its tough ceramic finish takes all sorts of heavy punishment without harm—year after year.

MINIMUM MAINTENANCE—Facing Tile's smooth impervious surface offers no foothold for dirt or grime, washes down easily with plain soap and water.

PERMANENT "COLOR-ENGINEERING"—Facing Tile colors are scientifically designed by color expert Faber Birren to help you fit the surroundings to the task—and you can rest assured that the color you specify will *last*.

STRUCTURAL STRENGTH—No need to worry about material failures—Facing Tile provides the time-tested structural stability of burned clay products.

CONSTRUCTION ECONOMY—Made in large modular sizes, Facing Tile lays up fast, with a minimum of cutting and fitting, builds a load-bearing wall and finish in one.

For complete data, contact any Institute Member, or write us direct. Address: Dept. PA-1.

FACING TILE INSTITUTE

1520 18th St., N.W., Washington 6, D.C. • 1949 Grand Central Terminal, New York 17, N.Y.

eye-insurance for Peninsular Life Insurance Company,

Jacksonville, Florida

Guth LITE-BLOX* TROFFERS

It's Peninsular Life's business to think of the future. And they have chosen Guth Troffers!

Just picture those inspiring lines of light in *any* office you plan or build. See how the troffers blend with the modern decor . . . how they appear to be custom-made for the setting. Notice how the even, low-brightness light softens every surface it strikes . . . even shiny steel files.

Guth Troffers fill the entire building with beauty and eye-ease. They create an atmosphere of efficiency . . . a pleasant place to work 8 full hours a day.

PACKED WITH ADVANTAGES

UNLIMITED LIGHT PATTERNS—They form any design that can be made with standard 12" ceiling tiles!

UNBROKEN LINES OF LIGHT—Precision-built units align perfectly in arrow-like lines.

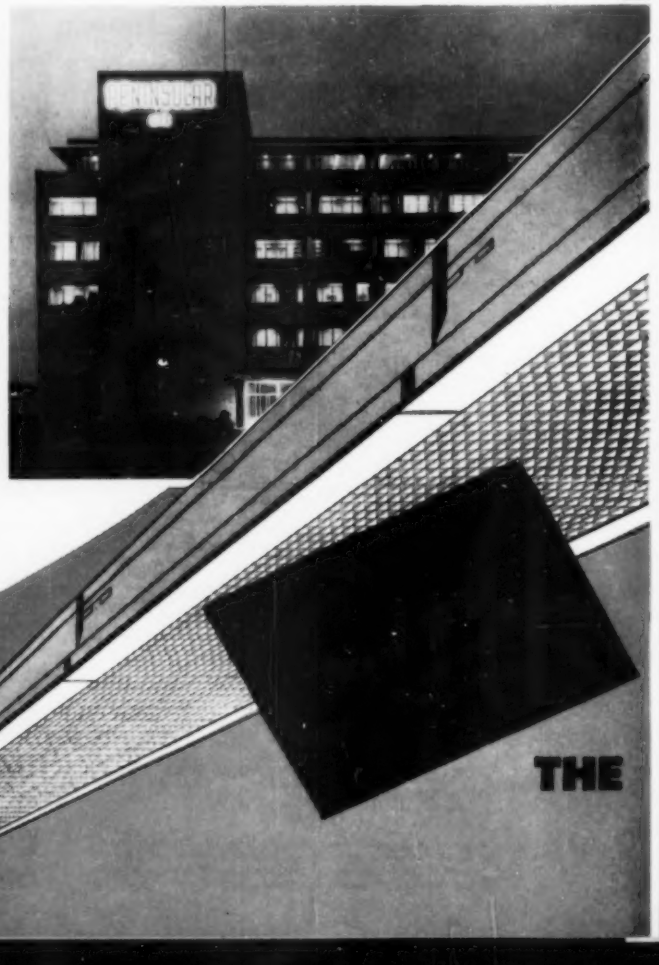
CUSTOM-MADE LOOK—Gleaming snap-on trim hides flange screws and "teebar gap" . . . adds a distinctive tailored appearance.

PERFECT CORNERS—Tile-Lites are used with troffers to make continuous light around corners.

THE EXACT FOOT-CANDLES YOU NEED—Use 1, 2, 3, or 4 lamps . . . 2′, 4′, 5′, 6′, or 8′ lamps . . . choose from 24 different sizes of standard, slimline or low-brightness types.

EASIER INSTALLATION—Complete units . . . ready to mount. One man can hang them! Wide-open space for wiring. Modular lengths that fit the job: 2′, 4′, 5′, 6′, and 8′. No trimming!

LOW MAINTENANCE COST—Hinged shield frame for easy relamping or cleaning. Slide-in reflectors are simple to remove and replace—no latches or nuts. Ballasts may be replaced without taking troffer down.



May we send you our Catalog 869-BB?
Just drop us a line on your letterhead.

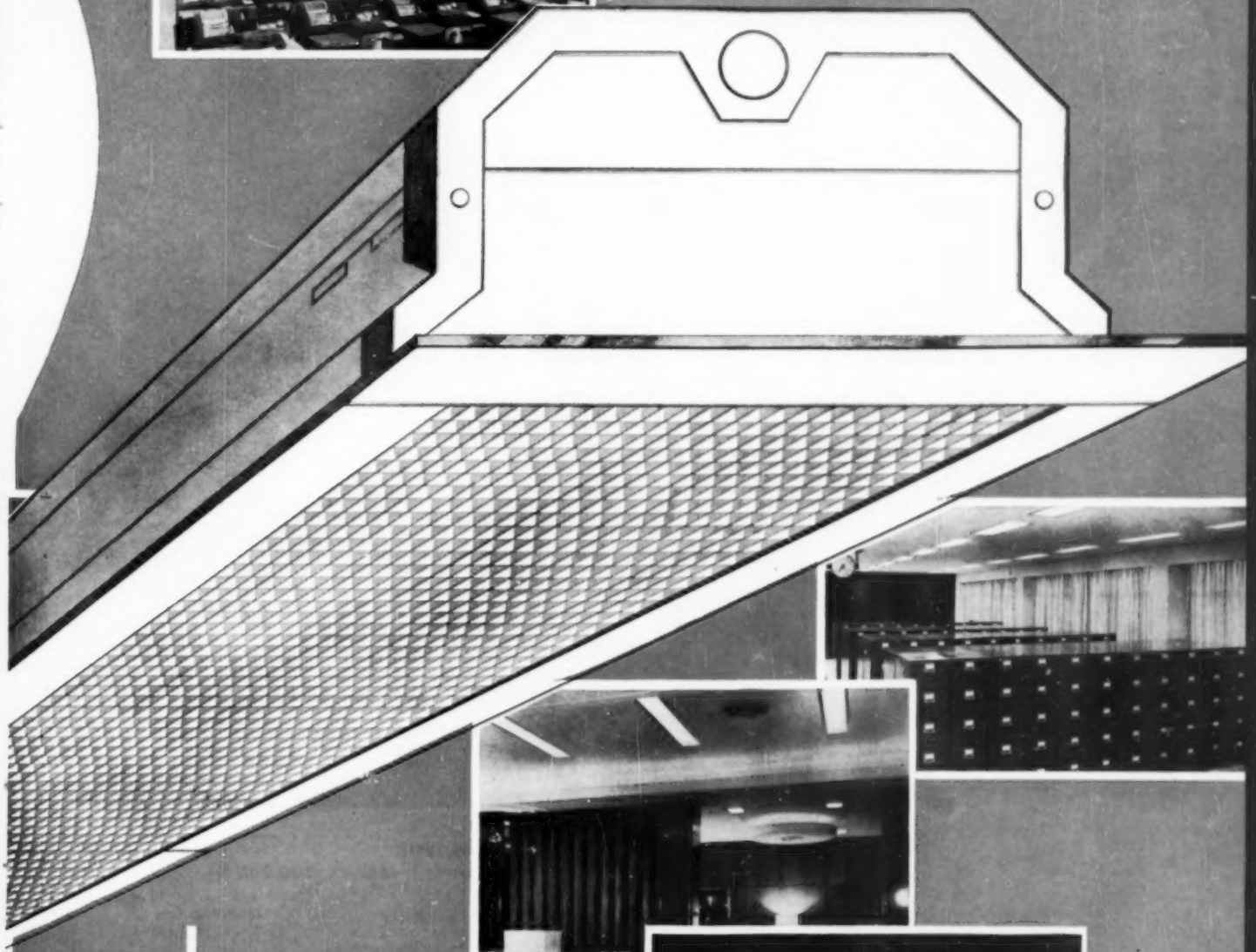
*TM—U. S. Pat. No. 2478822—others pending
**U. S. & Can. Pats. Pend.—TM Reg.

THE

ANY BOTTOM YOU CAN NAME

Select the type that goes with your motif:

- **GRATELITE**** , *the new Louver-Diffuser for functional beauty and low-brightness, "velvetized" light (shown below)*
- PRISMATIC LENS
- GLOBOLITER
- CROSS BAFFLES
- ALBALITE GLASS
- CURVED PRISM LENS
- HINGED EGGCRATES
- OPEN TYPE
- FLUTEX GLASS

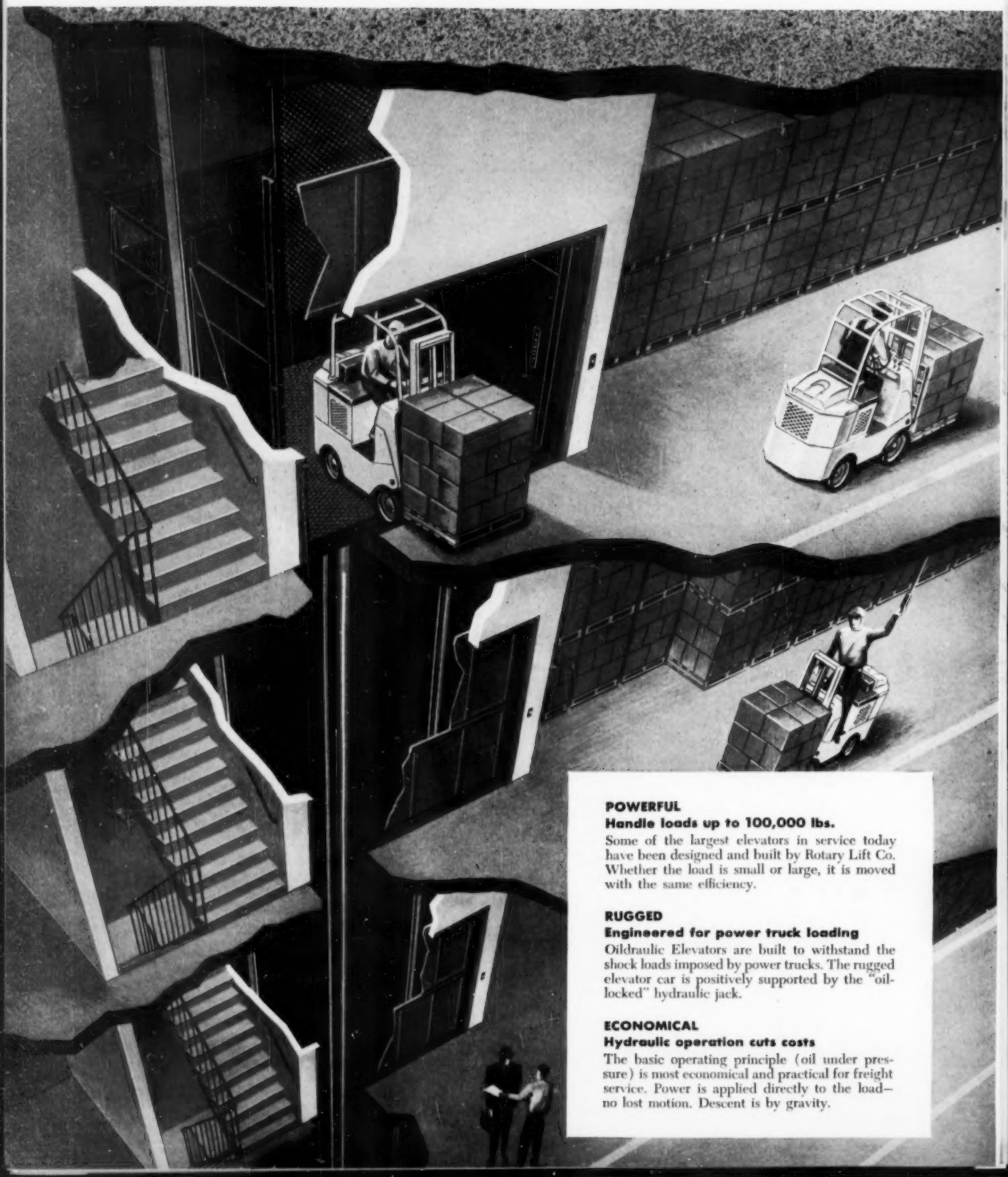


Installation Site:	Peninsular Life Insurance Co., Jacksonville, Fla.
Architects:	Kemp, Dunch & Jackson, Jacksonville, Fla.
Consulting Engineer:	R. M. Garth, Jacksonville, Fla.
Electrical Contractors:	Satchwell & Joseph Electrical Co., Jacksonville, Fla.
Electrical Distributor:	Leslie E. Porter, Porter Lighting, Inc., Jacksonville, Fla.

EDWIN F. GUTH COMPANY ST. LOUIS 3, MO.

Leaders in Lighting Since 1902

New efficiency and



POWERFUL

Handle loads up to 100,000 lbs.

Some of the largest elevators in service today have been designed and built by Rotary Lift Co. Whether the load is small or large, it is moved with the same efficiency.

RUGGED

Engineered for power truck loading

Oildraulic Elevators are built to withstand the shock loads imposed by power trucks. The rugged elevator car is positively supported by the "oil-locked" hydraulic jack.

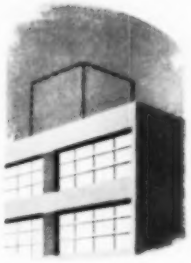
ECONOMICAL

Hydraulic operation cuts costs

The basic operating principle (oil under pressure) is most economical and practical for freight service. Power is applied directly to the load—no lost motion. Descent is by gravity.

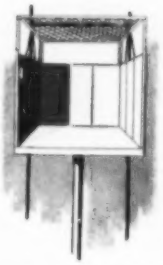
economy in freight elevators

Rotary Oildraulic Elevators have these architectural and operating advantages



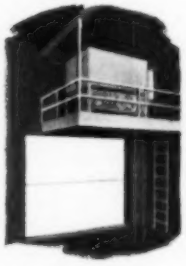
No costly, unsightly penthouse

Because it's pushed up from below, not pulled from above, the Oildraulic Elevator requires no unsightly penthouse. This permits a saving of several hundred to thousands of dollars, and improves the design of a building.



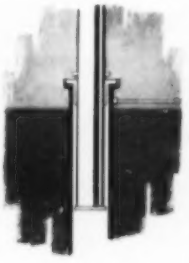
Lighter shaftway structure

There's no need for heavy, load-bearing sidewall supporting columns and footings to carry the car, counterweight, overhead machinery, and the load. Rotary's Oildraulic jack supports the entire system from below.



Flexibility in power unit location

A machine room can usually be dispensed with because Rotary's compact power unit can be located at any convenient spot on any landing and on any side of the hatchway . . . or in an area with other equipment.



Low operating and maintenance cost

As the pump, all valves and the plunger operate in oil at all times, wear is negligible. Motor is used only when car rises—half the usual service. Smooth operation reduces shock and wear. No cables to replace periodically.

New Rotary Development

PATENTED OILDRAULIC CONTROLLER guarantees smooth starts, accurate landings

The revolutionary Rota-Flow oil-hydraulic power system gives velvet-smooth starts and cushioned stops. Oildraulic automatic floor leveling positions the elevator car to each landing with exactness . . . ¼" accuracy guaranteed. The new Oildraulic Controller is a very remarkable device that handles the functions of seven separate control valves . . . simplifies adjustments and maintenance.

Rotary electric control systems are tailored to exact requirements and any desired type of operation can be furnished. For planning assistance call on our Engineering Department.

Rotary® OILDRAULIC®

Freight Elevators

THE MODERN ELEVATOR FOR MODERN BUILDINGS

Engineered and built by Rotary, world's oldest and largest maker of oil hydraulic lifts

SEE OUR FILE IN SWEET'S—For catalog and complete architectural data, write ROTARY LIFT CO., 1101 Kentucky, Memphis 2, Tenn.

REMOTAIRE

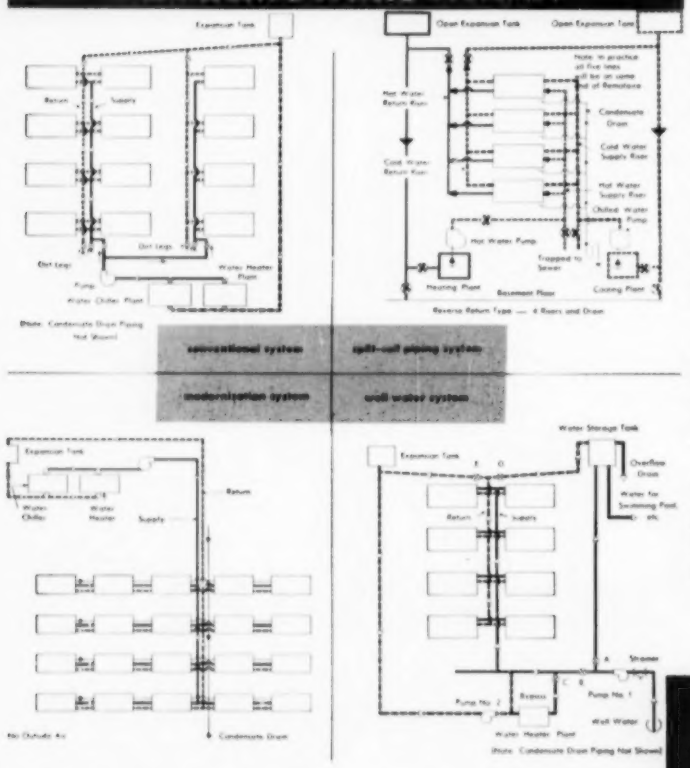
ROOM CONDITIONER

individual-room, remote-type units providing year 'round air conditioning for central plant multi-room installations

Adaptable to the one system that's most efficient, most economical for the job

WALL APERTURE SYSTEM • INTERIOR VENTILATION SYSTEM • WELL WATER SYSTEM
SPLIT-COIL SYSTEM • MOTEL SYSTEM • RESIDENTIAL SYSTEM • MODERNIZATION SYSTEM

SOME TYPICAL PIPING ARRANGEMENTS FOR REMOTAIRE SYSTEMS:



● The Remotaire room conditioner heats in winter, cools in summer . . . filters and circulates the air all year 'round. Using chilled water from a central water chiller for summer cooling and hot water from a central heating plant for winter comfort, the Remotaire system provides clean, draft-free, healthful comfort-conditioning for multi-room installations such as hotels, motels, schools, hospitals, office buildings and residences.

A Remotaire system is versatile. It can be adapted to the system of air conditioning that is best suited to each building . . . new construction or modernization. Ventilation can be provided in a variety of ways . . . several methods of piping arrangements are possible. Since units can be installed free standing or recessed partially or completely, they afford wide flexibility in architectural planning.

As part of a Remotaire system, individual unit control permits each room occupant to choose the temperature that suits him best without affecting adjoining rooms. And when the unit is not in use it can be completely turned off, thereby reducing operating costs.

For details on the various Remotaire systems, or for suggestions on which system to use in your building, contact your nearest American-Standard sales office or send for descriptive literature.

American Radiator & Standard Sanitary Corp., Dept. PA-14, Pittsburgh 30, Pa.

For further information on the Remotaire see Sweet's Architectural File.

AMERICAN-Standard
HEATING-COOLING SYSTEMS

Serving home and industry

AMERICAN-STANDARD • AMERICAN BLOWER • CHURCH SEATS & WALL TILE • DETROIT CONTROLS • KEWANEE BOILERS • ROSS EXCHANGERS • SUNBEAM AIR CONDITIONERS

Here's the Interesting Story of
AMERICA'S MOST AMAZING ACOUSTICAL JOB

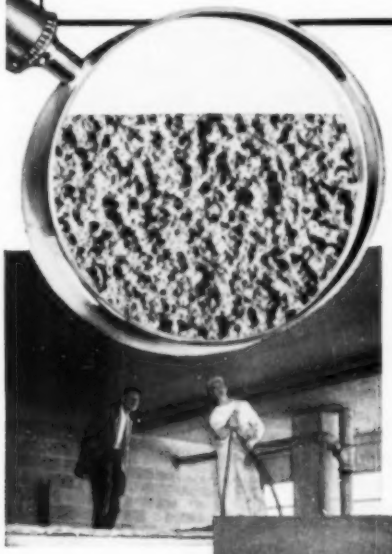
WORLD'S LARGEST Machine-Placed ACOUSTICAL INSTALLATION

U.S. Army Finance Center
Fort Benjamin Harrison
INDIANAPOLIS

Architects: Harley, Ellington and Day, Detroit, Mich.
General Contractors: Sherry-Richards Co., Chicago, Ill. Wilcox Construction Co., Inc. Indianapolis Corbetta Construction Co., Chicago, Ill. James McHugh Construction Co., Chicago, Ill.
Plastering Contractors: McNulty Bros. Co., Chicago.

THEY CAME TO WATCH FROM ACROSS AMERICA!

Plastering contractors from all corners of the nation traveled to see this job because it is a revolutionary new technique of acoustically treating large areas with amazing speed. *And they were impressed!*

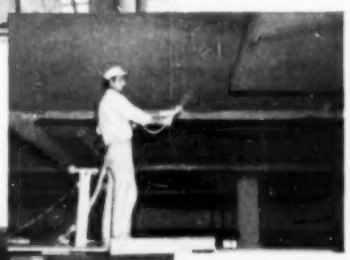


30 ACRES OF ACOUSTIC!

Unbelievable, but true!

2250 Square Yards of Finished Acoustical Per Day!

No wonder Zonolite Acoustical Plastic was used in the Army Finance Center project! Ease of application, plus Zonolite's benefits of top sound absorption, beauty, and super fire protection make Zonolite the ideal acoustical material for government buildings, hospitals, hotels, office buildings, stores, homes, etc. Find out how you can make Zonolite Acoustical Plastic *work wonders for you* in maintaining the maximum degree of sound conditioning, beauty and fire protection—at low cost.



ATTRACTIVE FINISH—beautiful finish achieved without use of plaster tools. Magnified inset shows decorative texture produced, traps sound, gives noise reduction coefficient of 0.65.

Photo shows secret of this high speed acoustical treatment. Combination of Zonolite Acoustical Plastic and plaster placing equipment accomplished unprecedented record acoustical installation.

NO FURRING! Photo shows application of Zonolite Acoustical Plastic. Adheres direct to exposed concrete.

FREE BOOK Before starting *your* next job get the full story of the world's largest machine-placed acoustical job. Mail coupon for story, *"30 Acres of Acoustic!"* and free descriptive booklet giving complete information about time-saving, cost-cutting Zonolite Acoustical Plastic.

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ZONOLITE COMPANY

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Zonolite Company, 135 S. LaSalle St.
Dept. PA-14, Chicago 3, Illinois

Gentlemen: Please send story "30 Acres of Acoustic" and free descriptive booklet PA-5 on Zonolite Acoustical Plastic.

NAME.....

FIRM.....

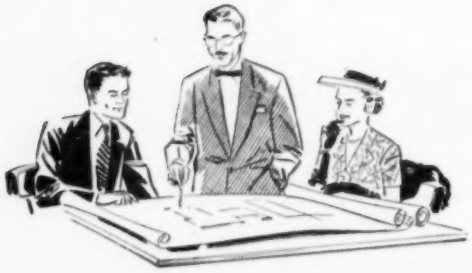
ADDRESS.....

CITY.....**ZONE**.....**STATE**.....

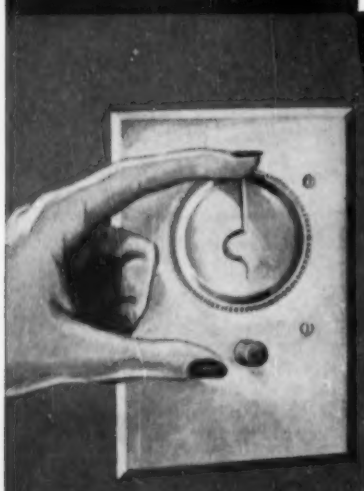
☐ Architect ☐ Builder ☐ Other

make

Controlled Light



an integral part of your plans



with the **powerstat** Wallbox Dimmer

- Any amount of light from darkness to full brightness
- As easily installed as the ordinary wallswitch
- Economical, cool, silent operation
- Approved by the Underwriters' Laboratories

THE SUPERIOR ELECTRIC CO.
BRISTOL, CONNECTICUT

Now, home lighting keeps pace with the modern design of better living. No longer must lighting be the complete darkness or blinding brilliance offered by the ordinary "on-off" wallswitch. A new concept in light control, the **powerstat** WALLBOX Dimmer replaces the wallswitch to permit the selection of light just right for any occasion and activity. Simply by turning a knob, light is brightened or softened silently and smoothly to reflect every mood, to provide the right amount of light for every seeing task. Here is lighting as it should be, *controlled* from darkness to full brightness to suit the needs of modern living. Plan for the **powerstat** WALLBOX Dimmer in the home you build.

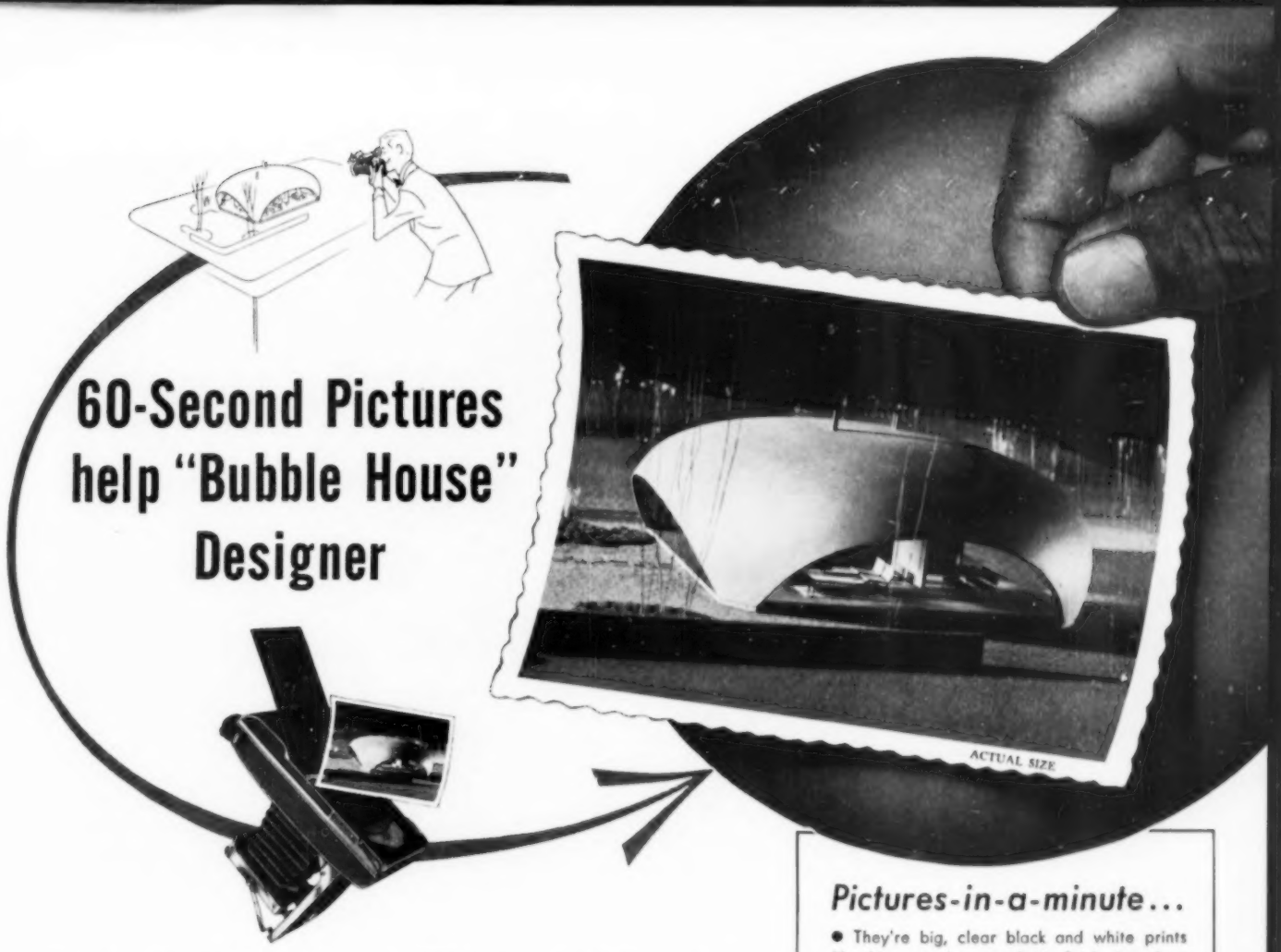
Complete technical information is offered in Bulletin D653WBT.

And for your customers, a simple, non-technical Bulletin D253WBC.

Write to:

THE SUPERIOR ELECTRIC CO.
4014 Demers Avenue, Bristol, Conn.

NAME_____
POSITION_____
COMPANY_____
CO. ADDRESS_____
CITY_____ **ZONE**_____ **STATE**_____



60-Second Pictures help "Bubble House" Designer

Famed architect Eliot Noyes reports: "I'd just completed changes in the design model of the Bubble House — wanted to discuss its features with my client in New York that very afternoon. The model couldn't be moved from the office. Conventional photographs would have cost me an extra day, but with my Polaroid Camera I made several excellent pictures on the spot, and was off to New York in a matter of minutes. Time and again, the picture-in-a-minute camera is invaluable in our work. Construction details can be quickly recorded for discussions with builder or client. On remodeling jobs, notes and dimensions can be made on the print for the guidance of draftsmen, saving endless sketching or long explanations."

Pictures-in-a-minute...

- They're big, clear black and white prints like this . . . and a new plastic finish gives them lasting beauty.
- Anyone can make good pictures with the very first roll. No tanks, liquids or fuss.
- Copies and enlargements are made quickly, inexpensively right from your prints. No need to keep negatives.

Have your picture taken free

Your photo dealer wants to show you a Polaroid Camera in action. You'll be amazed at the high quality of today's one-minute pictures. It takes only 60 seconds to see for yourself.

Fun in your home

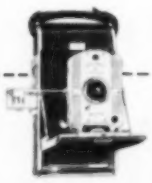
You'll make wonderful pictures — show and enjoy them instantly! And they're yours for *sure*. You know immediately how they came out. You can retake them on the spot if they're not perfect.

Free Literature

For handsome booklets describing the two Polaroid Cameras and their accessories . . . and for some helpful ideas about picture-in-a-minute photography . . . write:

POLAROID CORP., DEPT. PA
Cambridge 39, Mass.

PATHFINDER
f/4.5 lens . . . shutter speeds one to 1/400 sec. . . . coupled rangefinder, the aristocrat of 60-second cameras.



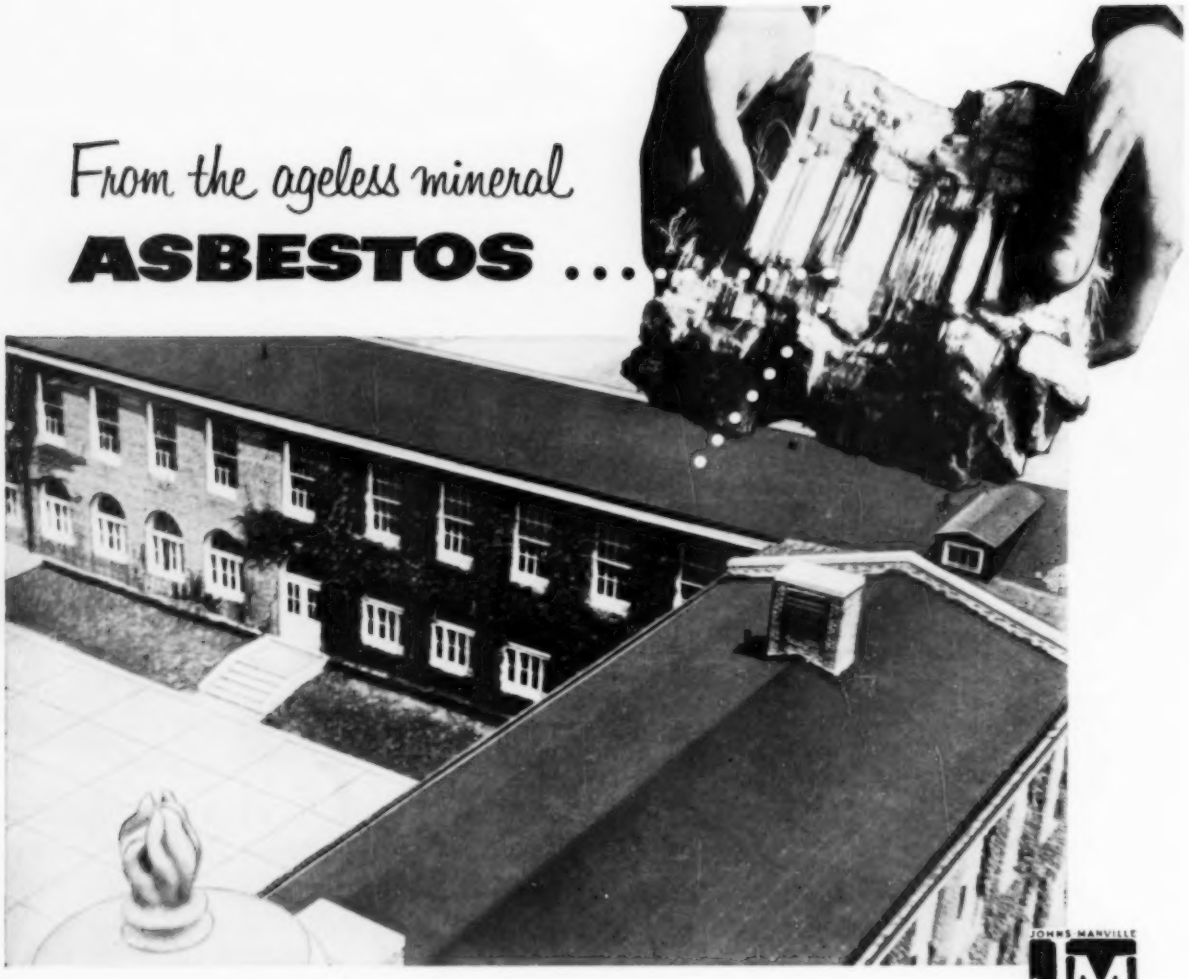
MODEL 95
Thrifty, easy to use indoors or out, rain or shine.

POLAROID® *Land* CAMERAS

Why wait days when a minute does it?

From the ageless mineral

ASBESTOS ...



JOHNS MANVILLE

JM

PRODUCTS

comes

the smooth-surfaced built-up roof- FLEXSTONE*

which provides a flexible covering of stone

Because they are made of the mineral, asbestos, the felts of a Johns-Manville Flexstone Built-Up Roof assure lasting service and protection. They will not support combustion. They effectively resist the drying-out action of the sun . . . won't rot, are weatherproof and need no periodic coating.

Flexstone Built-Up Roofs are smooth-surfaced . . . permit thorough drainage . . . make damage easy to locate and repair. These superior advantages are also provided by the J-M Flexstone Special Built-Up Roof . . . developed especially for dead-level decks.

For complete information about Flexstone Roofs and J-M Asbestile* Flashing System that provides thorough water tightness and effective treatment for critical roof areas, see your Approved Johns-Manville Contractor. He's listed in the Classified Section of the telephone directory. Or send for folder BU-51A. Write Johns-Manville, Box 158, New York 16, N. Y. In Canada, write 199 Bay St., Toronto 1, Ont.

*Reg. U. S. Pat. Off.

Made of ASBESTOS

Johns-Manville FLEXSTONE* Built-Up Roofs

ASBESTOS CORRUGATED TRANSITE* • ACOUSTICAL CEILINGS

DECORATIVE FLOORS • MOVABLE WALLS • ETC.

Brasco Installation at Braeswood Shopping Center, Houston.
Architect, B. F. Greenwood of Dixon & Greenwood.

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General Contractor:
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Architect: **MATTHEW W. DEL GAUDIO**, New York

Structural Engineers:
TUCK & EIPEL, New York

Ready-mix 'Incor' Concrete:
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● Assembly-line efficiency in industry has its counterpart in construction, as illustrated in Gravesend Houses, latest in New York City Housing Authority's record-shattering program.

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Well-built forms were filled, stripped, reassembled, on schedules as precise as any automobile assembly line: 105 floors concreted in 66 working days—1.6 floors a day! Contractor's sum-up:

'Incor' was a life-saver . . . the job went twice as fast, thanks to high early strength you can rely on . . . exceptionally smooth surfaces saved on finishing, too.

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*Reg. U. S. Pat. Off.

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P/A Annual Design Survey for 1954

and first Design Awards Program

This issue of PROGRESSIVE ARCHITECTURE is an architectural and engineering preview of 1954—a year that begins on a note of calculated optimism for sustained activity and with a growing desire in the hearts and minds of many to build for the future. The major part of the issue is a report on P/A's first Design Awards Program, for buildings submitted for professional judgment in the design stage. Eight Design Award winners (including the First Design Award) and 49 Award Citations selected by the distinguished Jury are shown.

What are the business prospects for architects in 1954? The first two of the green pages that follow analyze the returns from P/A's survey—our annual forecast which has proved sharply accurate for previous years. What are the technical developments that will affect 1954 architecture and engineering? Following the business survey, there is an analysis of P/A's survey of the engineering field. And finally, we show what the buildings to be constructed in 1954 will look like, and how they will be planned.

A word about the Design Awards Program. P/A's Editors—and the Jury members—were more than gratified at the results. Over 600 entries were submitted; the general level of quality was high; and the judgment was difficult. "There are too many good designs here," Eero Saarinen remarked at one point. "We're knocking out a lot of good things." Those who won Award Citations should be most proud: the competition was keen; the list of contestants reads as a roster of the best-known firms in the country, as well as a list of the best *potential* firms, many of whom are "unknowns" as far as previous publication is concerned. This is the way we had hoped it would be. The First Design Award, without doubt, deserves that place, combining as it does the talents of an unusual group of architects, utmost importance and promise as a redevelopment project, an interesting aggregation of building types, and careful thought in planning and the techniques of construction. Along with such a tremendous architectural concept it is good to see a little Boy Scout chapel, for instance, win a Design Award; it is encouraging to find buildings of every type from every part of the country represented in the winning group.

Awards have by now been presented to the winners. National and local publicity has been launched on the individual projects—the main purpose of the Program is to give an assist to the designers through their placing in the contest. This month, in

Boston, P/A is giving an Award Dinner, with as many as possible of the Award and Citation winners present. The Jury did not write a formal report, but its findings on the day of the judgment might be summarized as follows:

A wide general level of competence is apparent from the entries. Particularly in the educational field a large number of extremely well-designed projects were submitted, and in the residential category a great variety of interesting, well-planned houses was judged. Because of this, it was possible to be strict in selection: winners had to be outstanding in every respect to reach the top. What seemed to be missing was imagination and along with it gaiety, excitement, fancy. Pure trickery and *forced*, meaningless exuberance were turned down by all the Jury members, but rational design which broke out beyond dignified, tasteful competence was seized on enthusiastically. The Jury felt that, by now, enough good hospitals, good schools, good stores have been designed so that there is no longer any excuse to produce anything that is not basically good. What the Jury was looking for was the *advance* to be made in 1954, over what has been accomplished in the last years. In some categories, therefore, no Award was given, but rather a number of Citations; an indication that the Jury felt there was a high general level of excellence, but no markedly advanced concept. Some of the Jury comments on individual projects appear in the pages that follow.

This issue, thanks to all the good architects who submitted work, launches P/A's program for the year. Progressive Architecture for 1954, as this Preview indicates, is based on changing standards in society, technology, commerce, industry. They can be summarized as:

changing family living habits	***higher cultural values***
more leisure hours	***greater mobility***
more general education	***improved materials***
new structural concepts	***expanding commerce and industry***
better health care	***better control of the environment***

Each issue of P/A during the rest of the year will be based on one of these themes. In the meantime, here is the Preview—the buildings not yet built, which will be added to the scene during the year by the Architects of America.

VICTOR GRUEN EERO SAARINEN GEORGE HOWE FRED N. SEVERUD

Members of the Jury (left) give careful study to a four-panel, 10-foot-long California entry that eventually won a Design Award in the residential category. These critics debated far into the night before agreeing upon final selections.

P/A Annual Business Forecast for 1954

Business prospects for architects in 1954 are good—down somewhat from last year's boom activities, but with no sharp drop in sight, and with a spreading of the work very evident from the reports made to P/A in its fourth annual business survey. The figures that follow are based on detailed summaries of prospects from approximately 5% of the active firms in the country, well distributed by region, by type of activity, and by size of firm—a sampling that has proven remarkably accurate in previous years.

The average firm reporting anticipates $3,665,000 of work to reach working-drawing stage in the present year, and $3,435,000 of work to reach the construction stage. In each case, this represents about a 9% drop from last year's estimates. This is just about the percentage drop in general business activity prognosticated by economic analysts, so the architects seem to be holding their own in the general economic picture, despite the adjustment some firms are having to make as a result of the drop in defense spending, public housing outlays, and other government-sponsored construction activities.

In fact, despite the drop in average dollar-volume expected, approximately 50% of the reporting firms anticipate an *increase* in work next year; 26% expect commissions to drop; 24% look for just about the same volume of business as in 1953. The reason for this apparent paradox in the face of a general business decline is that there is a very obvious leveling-off of work, with the larger firms dropping in dollar volume, and the smaller firms picking up. Of those reporting to P/A, firms doing an annual volume of work under $1 million in value (39% of the total) expect an average increase; those doing between $1 million and $10 millions (57%) expect no change; those with a volume over $10 millions (4%) anticipate an average decrease. In other words, the concentration of work in the larger offices, evident last year during the peak of defense activity, is ending in favor of a more general distribution of work in other categories—principally schools and commercial structures.

For purposes of the survey, P/A each year breaks its figures down by the following regions; and it will be seen that the average volume of work *in each region* varies greatly.

Region		average $ volume (firms reporting)
1	Northwest	$1,104,000
2	North Central	$2,675,000
3	Great Lakes	$9,050,000
4	Northeast	$4,200,000
5	Southeast	$2,180,000
6	Gulf States	$2,800,000
7	Central States	$2,626,000
8	Texas	$2,126,000
9	Western Mountain	$1,460,000
10	California-Nevada	$2,815,000

Thus, it will be seen that the Great Lakes area, with industrial work keeping many large firms busy, has the greatest average of work, with the Northeast following. The Northwest has the lowest average, nosing out the Mountain area for that dubious honor. All the remaining regions are fairly close in their averages—between $2 millions and $3 millions in each case.

Educational work leads the field in dollar volume by building types, nationally, and in each region with three exceptions. (The Great Lakes region still has more Defense work and Industrial work than any other category; Health commissions lead in the Gulf States area; Texas reports Commercial in first place.) Commercial work has moved

to second place nationally; Defense activity, which took the greatest dollar volume last year, has moved down to fifth place.

On a national basis, here is how the building types stack up, in comparison to last year:

Building type	Dollar volume (Average firm)	% of total	% 1953
Education	$849,000	25	20
Commerce	530,000	15	14
Housing	494,000	14.5	14
Industry	460,000	13.5	12
Defense	398,000	11.5	22
Public Use	248,000	7	5
Health	210,000	6	6
Religion	190,000	6	4
Miscellaneous	56,000	1.5	3
Total	$3,435,000	100%	100%

The survey this year made one further breakdown, which had not been studied in the past; "housing" was divided into two categories—private residential, and multifamily housing (public and private). The responding architects estimate that $174,000 of work in the average office will go to the private house (5% of total average volume) and $350,000 to multihousing projects (9.5%). The total, 14.5% of the average architect's business, is very close to the figure estimated last year for this activity. The largest volume in house design projects was reported from Texas (12.5% of the volume) and from the Northwest (10%); the lowest activity in this field is in the Great Lakes area and the Northeast (3 to 4% of the volume). But in these regions other types of housing (apartments, public housing) bring up the total "housing" volume. In the Northeastern states, in fact, it is 20% of the total dollar volume reported.

Employment opportunities in the architectural offices seem about as good as last year. The average firm reports that it now has 10 employes, and despite some sharp expected drops, there is a balance from anticipated increases, and the average expectation for 1954 is the same—10 employes.

In this sense the "average" firm is rather meaningless, since sizes of offices range from 1100 employed personnel to one. Here is the picture from which a median, rather than an average, can be inferred:

Firms with 1 to 2 employes	27% of total firms
3 to 16	35
7 to 10	21
11 to 20	8
21 to 50	7
over 50	2

In other words, it appears that the median is somewhere around five employes; only 9% of the active firms, in this survey, employ more than 20 people.

A further analysis of architectural office size—by volume of business—shows the following results in this year's P/A survey:

$ volume of business in office	% of firms reporting	% of total construction
under $1 million	39%	9%
$1 to $5 millions	43	29
$5 to $10 millions	14	25
over $10 millions	4	37

It appears from this tabulation of the returns that the typical firm, as well as the average firm, does about $3,500,000 of work annually, and, further, that the major part of the construction volume in the country is designed by the 57% of the firms handling more than $1 million but less than $10 millions of commissions—54% of the dollar volume reported is in those offices.

One final report from this survey: the turnover in architectural firms is still large. No useful statistics can be given on this, because obviously many new firms had nothing to report and many disappearing organizations did not reply. However, while a large number of returns explained, "Sorry, we're no longer in business," these were more than balanced by respondents who stated, "It's too early to predict; we're just hanging up the shingle."

Thus, with new faces appearing and familiar ones leaving the scene, the profession of architecture moves into a new year with prospects—comparable to those of other businesses and professions—of a decline in business which is noticeable but not, at this point, alarming.

P/A Engineering Survey for 1954

All reports indicate another boom year for concrete construction, with precast modular units being specified for a vast variety of construction. In many instances, these precast modular units will be improved and reduced in cost by means of prestressing —especially for beams with spans up to 100 ft and modular roof panels with spans up to 35 ft. Newly formed Prestressing, Inc., San Antonio, reports the opinion that general contractors will be willing to set up job-site casting yards where precast members can be turned out under job conditions just as cheaply as yard-cast members—with the added advantage that freight charges become unimportant.

Prestressing of concrete members for all types of structures will continue to gain acceptance across the nation and various improved methods will be tried. From New York comes news of the Preload-Crom beam-winding system which offers the American construction industry, for the first time, a practical and simple mechanical method for the application of prestressed-wire reinforcement under tension to concrete beams, girders, and other linear members. Virtually eliminated are the laborious, complex, time-consuming procedures involved in assembling, placing, stressing, anchoring, and grouting of prestressed elements—as well as the costly bearing plates and anchorage assemblies required of most present methods. Briefly stated, for beams under 50 ft in length this new method operates as follows: After a concrete beam is cast and cured, it is secured to a turntable. As the turntable is rotated by a power unit, high-tensile wire, pulled through a die, is placed around the beam at the required design tension. When the correct number of wraps have been made, they are anchored and given a protective coating of pneumatic mortar.

John J. Driskell, Pasadena structural engineer, reports a complete concrete-roof system for an East Los Angeles bakery, that will cost but $1.20 per sq ft in place. His thin-shell roof will be of 4 in. thick, 3000 psi lightweight prestressed-concrete slabs. Transversely there are three equal spans, each 17′ 4″—the two outer slabs with a 4½ to 12 slope, the center slab horizontal. Thus each shell is 52 ft wide. Longitudinally the shells span 60 ft and are stiffened and restrained from spreading by an inverted diaphragm along the column lines. Total horizontal area covered by this thin-shell construction will be 170′ x 364′. (Architects: Bennett & Bennett.)

Tube-slab construction designed by A. J. Macchi, Hartford structural engineer, will be used in the King Philip Drive School in West Hartford. Steadily gaining popularity, the principal advantage of this floor system is derived from the cylindrical holes formed by the tubes as they displace concrete that is of little value in supporting loads. Not only is dead load reduced but both concrete and steel are allowed to work at maximum efficiency, as well as being reduced in amount. Paper tubes will be 8 in. in diameter and spaced 10 in. on center. (Architects: Ebbets, Frid & Prentice.)

Lift-slab concrete construction has won Navy acceptance and the largest structure yet built by this method is now under way at the U. S. Naval Amphibious Base, Norfolk, Virginia. This three-story barracks building is shaped like two E's back-to-back and has a frontage of 477 ft; each wing is approximately 50 ft wide. (Architects: Woodward, Oliver & Smith; Engineers: Knappen-Tippetts-Abbett-McCarthy.)

•

To be erected at Raleigh, North Carolina, is a grandstand cover of great span and entirely without obstructing supports. This cover has been designed of structural steel by Severud-Elstad-Krueger, New

York consulting engineers. (Architect: Wm. Henley Deitrick, Inc.) Corpus Christi's new Civic Center will boast an auditorium with a lamella steel-roof structural system spanning 224 ft. Structural Engineers Blucher & Naismith have designed the roof system to support a precast-concrete roof deck with composition roofing over insulation. The entire auditorium will cover an area of 71,600 sq ft. (Architect: Richard S. Colley.)

Many applications of architectural stainless steel are being contemplated for both commercial and industrial buildings—in several finishes and formations for the former type and panels for side walls and roofs (both in nickel and non-nickel bearing stainless steels) for the latter type of building. Gutters, downspouts, gravel stops, skylights, and other exposed architectural features will prove more popular for stainless steel, according to the United States Steel Corporation.

●

Although no exacting surveys have been made to determine the number of commercial façades that will use aluminum, it is evident that there has been an astonishing increase in the number of jobs now in the planning stage that will use aluminum curtain-wall construction. It looks like a particularly big year for aluminum spandrels. According to Reynolds Metals Company, it now appears that aluminum will make the biggest dent in the window field and that prefab building will also consume a large portion of the nation's aluminum production.

●

At Montana State University, laminated-wood arches with spans of 201′ 6″, pin to pin, are now rising 70 ft above the arena floor of the new Field House. This span makes the laminated-wood arches among the largest ever erected and, according to Brinkman & Lenon, architects-engineers, each arch weighs 6½ tons.

●

Seelye, Stevenson, Value & Knecht, New York consulting engineers, have proposed a high-temperature hot-water central heating and distribution system (350 to 400 F) for the Plattsburgh Air Force Base, Plattsburgh, New York. Their system will provide for the heating and process requirements of all new buildings and heating for the modernized existing structures. A major advantage of this method is that much more economical pipe sizes are possible —often smaller than those required for a comparable steam system. (Architects: Shreve, Lamb & Harmon Associates.)

Commenting on the future of home air conditioning, Prof. William J. McGuinness, Pratt Institute, states: "Sales now indicate that the larger air-conditioning units may soon pass room units in popularity leaving the latter to serve only in existing homes and apartment houses. By now, engineering design has been simplified to put it within the purchasable reach of the average home owner, as well as understandable by the builder and heating contractor."

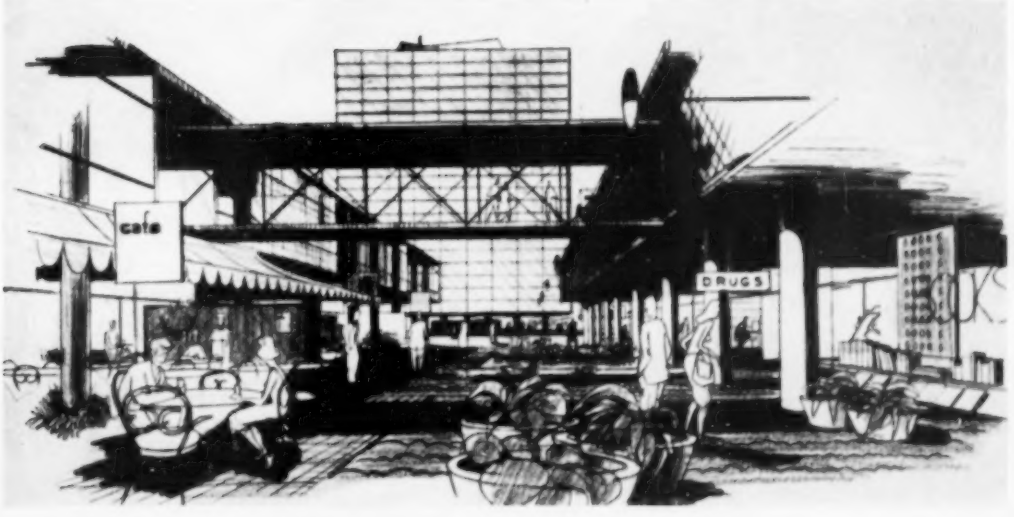
●

Lighting engineers at Nela Park, Cleveland, have developed a new approach on fundamentals that presages a new era of precision in calculating lighting results for new installations. Fluorescent street lighting is likely to have a big influence on new and old shopping centers in the coming year. The degree of safety and distinction they provide will probably attract new applications as rapidly as merchants and municipalities can arrange financing. A new light meter (still being tested) offers much more accuracy in registering quantity of illumination. The new meter collects light from a wide angle and registers more fully the effect of energy throughout the visible spectrum. Dr. Domina Eberle Spencer, associate professor and lighting consultant, University of Connecticut, predicts that the most important lighting development will be the use of luminous ceilings across the board—from industry to the hospital operating room, from school room to the kitchen, in stores, offices, drafting rooms, laboratories, and television studios.

proposed Back Bay Center development
for Stevens Development Corporation

first design award

location	Boston, Massachusetts	Pietro Belluschi
architects	Boston Center Architects	Walter F. Bogner Carl Koch & Associates
consulting engineers-construction managers	Stone and Webster Engineering Corporation	Hugh A. Stubbins, Jr. The Architects Collaborative
economic consultant	Kenneth C. Welch	
traffic-parking consultants	Wilbur Smith & Associates	



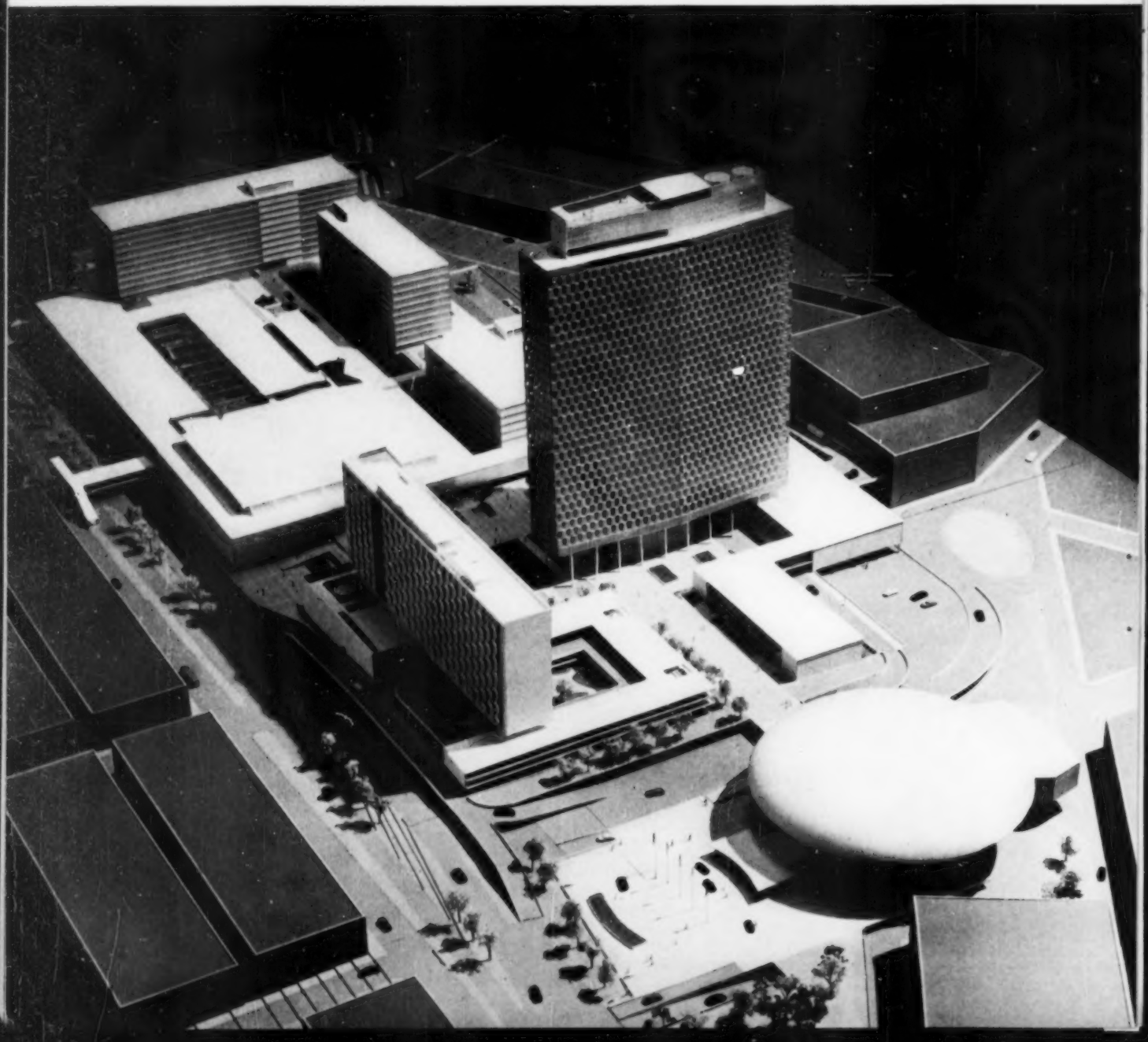
Boston Center

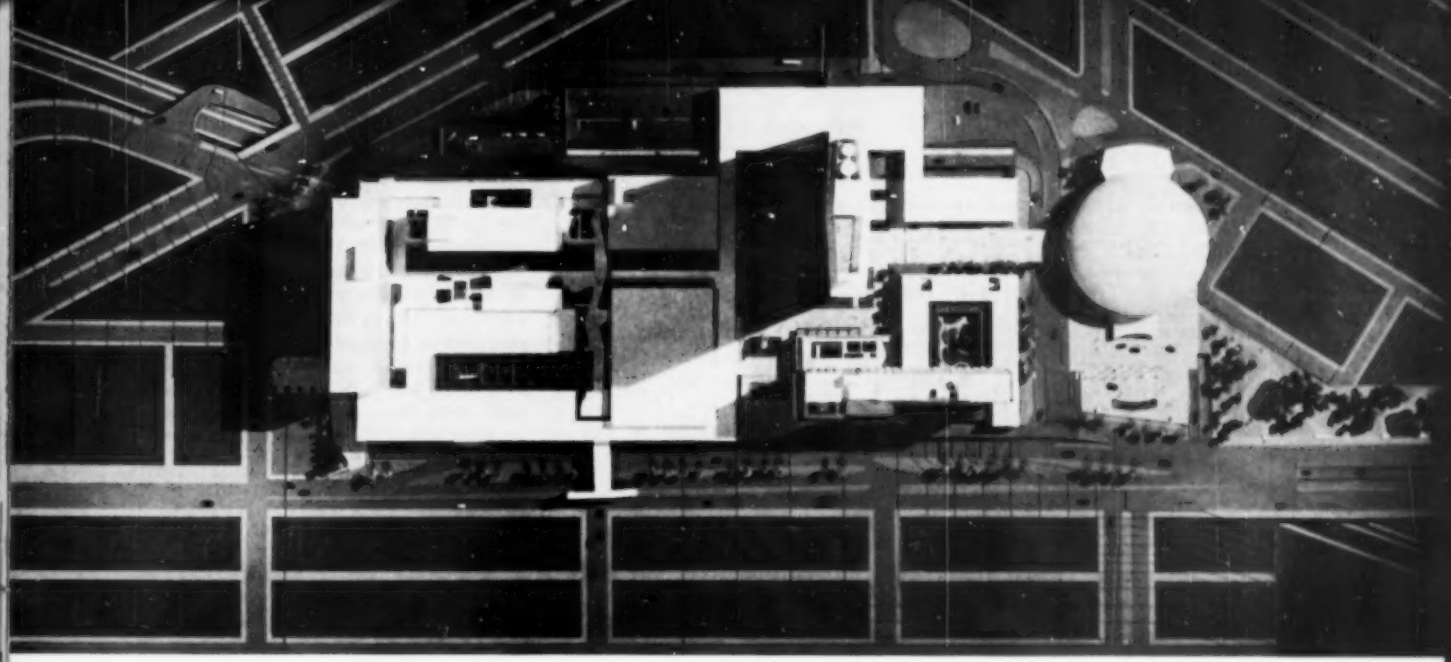
This stunning complex rose above every other entry in the Design Awards Program to receive from the Jury the over-all First Design Award. It also was given the top Design Award in the Commercial category. And the circular Convention Hall adjoining the Center at its western end was given an Award Citation.

The proposed Back Bay Center is an extraordinarily impressive scheme—particularly so to anyone who knows that area of Boston. For, though that proper city has a distinguished architectural past and there are numerous excellent, smaller contemporary structures and residences in the environs, it has by no means been notable for its commercial structures built in the 20th Century. Now, all of a sudden, the proposal is to construct as lively a group of buildings as any city anywhere can boast—a shining new core for the old metropolis. And this, right in the heart of the present city, within two blocks of H. H. Richardson's Trinity Church, McKim, Mead & White's Boston Public Library, and the huge dome of the extension to the Mother Church of The First Church of Christ, Scientist (Charles Brigham, Chief Architect). Most fortuitously, the design is in the hands of a group of some of the most progressive architects in this country.

The 30-acre site has served for years as the unsightly railroad yards of the Boston & Albany Railroad. Now, with the removal of all save an 82-foot-wide area that will carry the main line diagonally across the property (underground), this whole acreage will be free for development.

Main units that are readily identifiable in the model photographs are the splayed-sided, 40-story office building; a rectangular structure at right angles to the office building, which, with its low, U-shaped





wing enclosing a courtyard, constitutes a unique city hotel facility—a 750-room combined hotel-motel. Rooms in the latter will be reached via a switchback auto ramp from bordering Boylston Street. Other major units, better understood from study of the detailed plans, are a huge department store; an all-weather air-conditioned, multilevel shopping promenade with a roof of glass; a street of shops; three smaller office buildings; a supermarket; and exhibit buildings, all grouped around a lightsome pedestrian plaza, with landscaping, pools, and similar, park-like amenities. Not part of the commercial development proper, but closely related to it, is the circular Convention Hall for which the client is the Convention Bureau of the City of Boston.

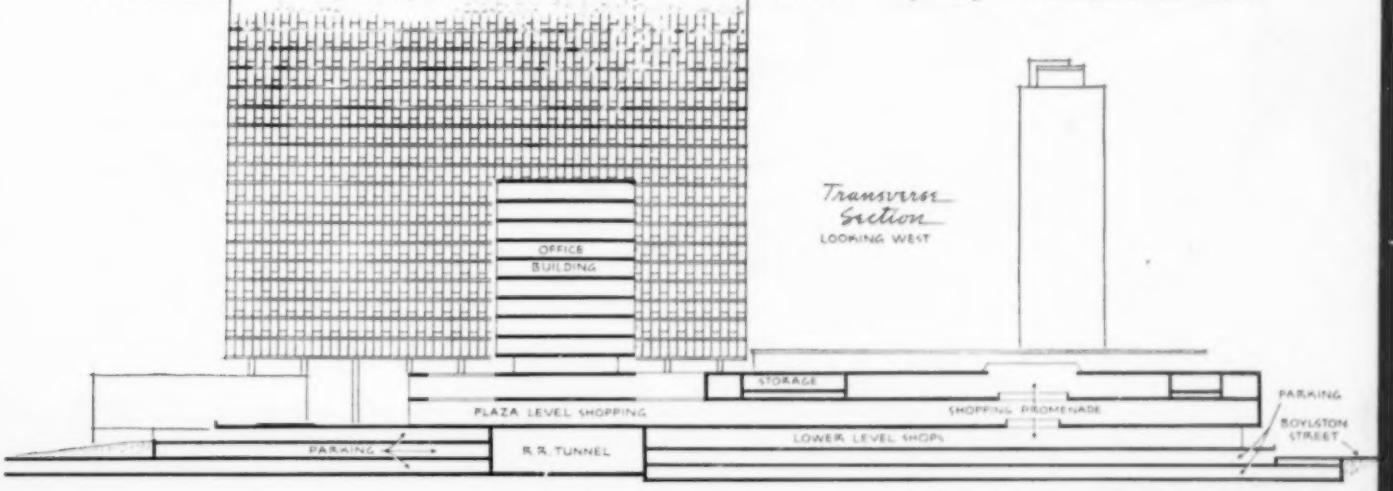
In fact, one of the most agreeable things about the entire development is that, throughout, the pedestrian once again comes into his own. Yet his automobile—6000 of them, to be exact—can be accommodated on underground parking levels. A one-way ring-road system within the Center takes all traffic destined for any portion of the group off of the existing neighboring streets.

Accessibility is further enhanced by existing and planned public-transportation routes. A subway now exists under Boylston Street *(the straight street at bottom of the straight-down model photo)*; another subway occurs under Huntington Avenue *(diagonal street at top left of model)*, and, since the railroad tracks cut across the site *(from upper left to bottom right)*, a new railroad station under the Center would make the entire group accessible to rail travelers.

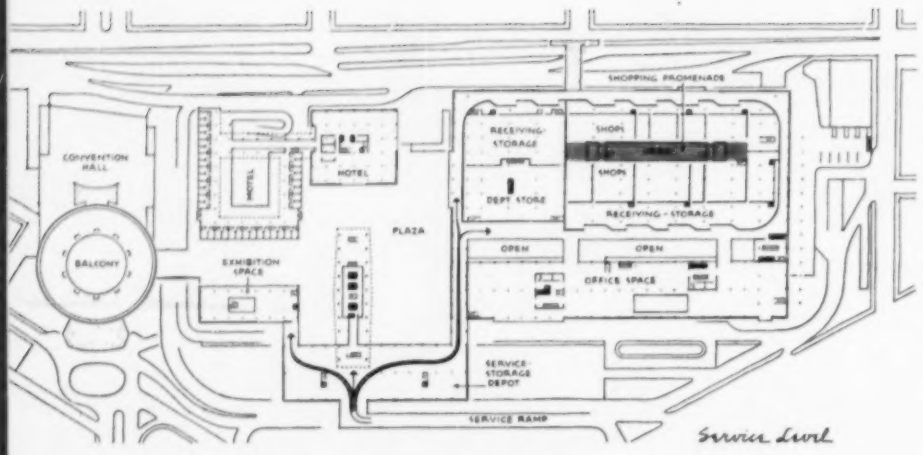
The Jury spent much time in studying the Back Bay Center scheme and the details of its planning. Final recorded words of approval were "a great concept" and "terrific."

While Boston businessmen and Mayor John B. Hynes are enthusiastic, curiously enough the project was prompted and is to be financed by outsiders. The Stevens Development Corporation, which will build the project, is headed by Roger L. Stevens, of Ann Arbor, Michigan. Stevens also heads the group that owns the Empire State Building in New York; another current Stevens project is a large commercial development for Seattle.

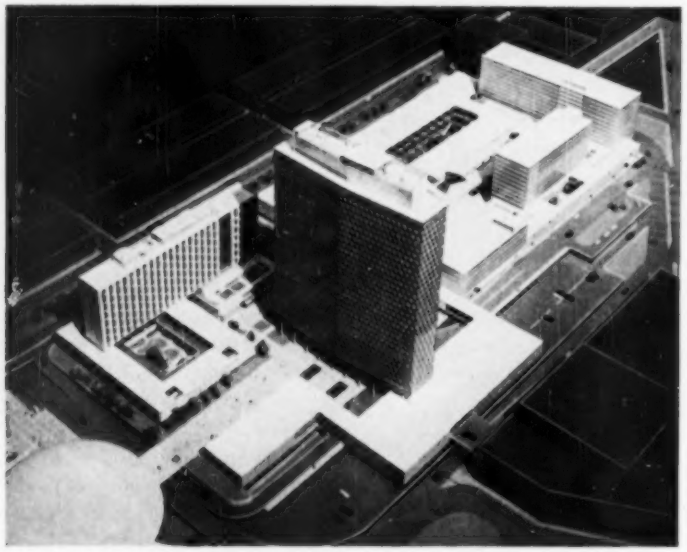
The section at bottom of page clearly shows the three-level parking garage south of the railroad tunnel (bordering Huntington Avenue); the two levels of parking bordering Boylston Street; the roofed, all-weather shopping promenade organized in a stepped-back balcony arrangement; a section through one of the smaller office buildings, and the façade of the great 40-story unit. Exact elements, such as materials to be used in the curtain walls, etc., are all yet to be determined. For the surfacing of the tall office building, for example, the architects are currently working toward some sort of flexible, combined window-and-wall units that may be used in various combinations, depending on individual tenants' needs.

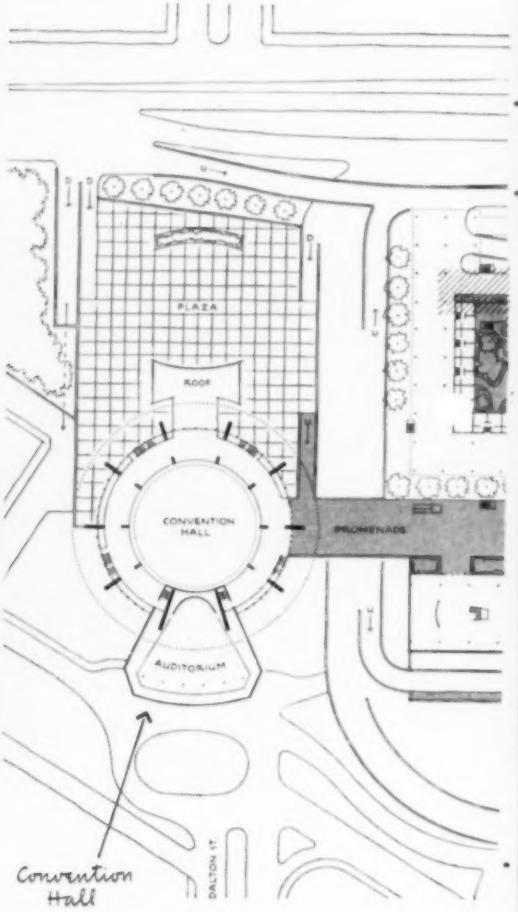


Scientific traffic studies estimate that 70,000 persons—25,000 motorists; 5,000 pedestrians; 40,000 mass-transportation riders—will visit the Center on an average day, with a peak day producing about 1.3 times as many. The one-way ring-road system provides ingress and egress at numerous points, so that all existing streets share in absorbing traffic; yet the ring road is completely isolated from traffic on circumferential streets. Below any floor level shown here is the original railroad-yard level (with huge triangular parking areas on either side of the 82-foot-wide rail tunnel with parking for approximately 1700 cars.

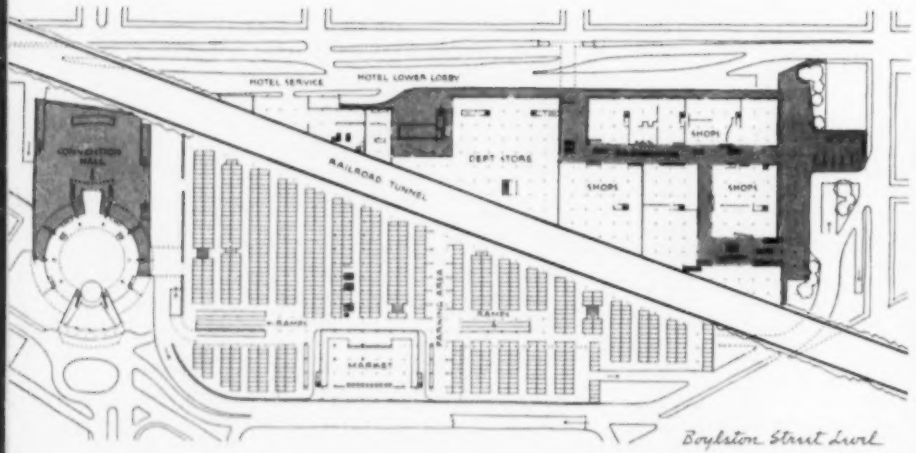


Service Level





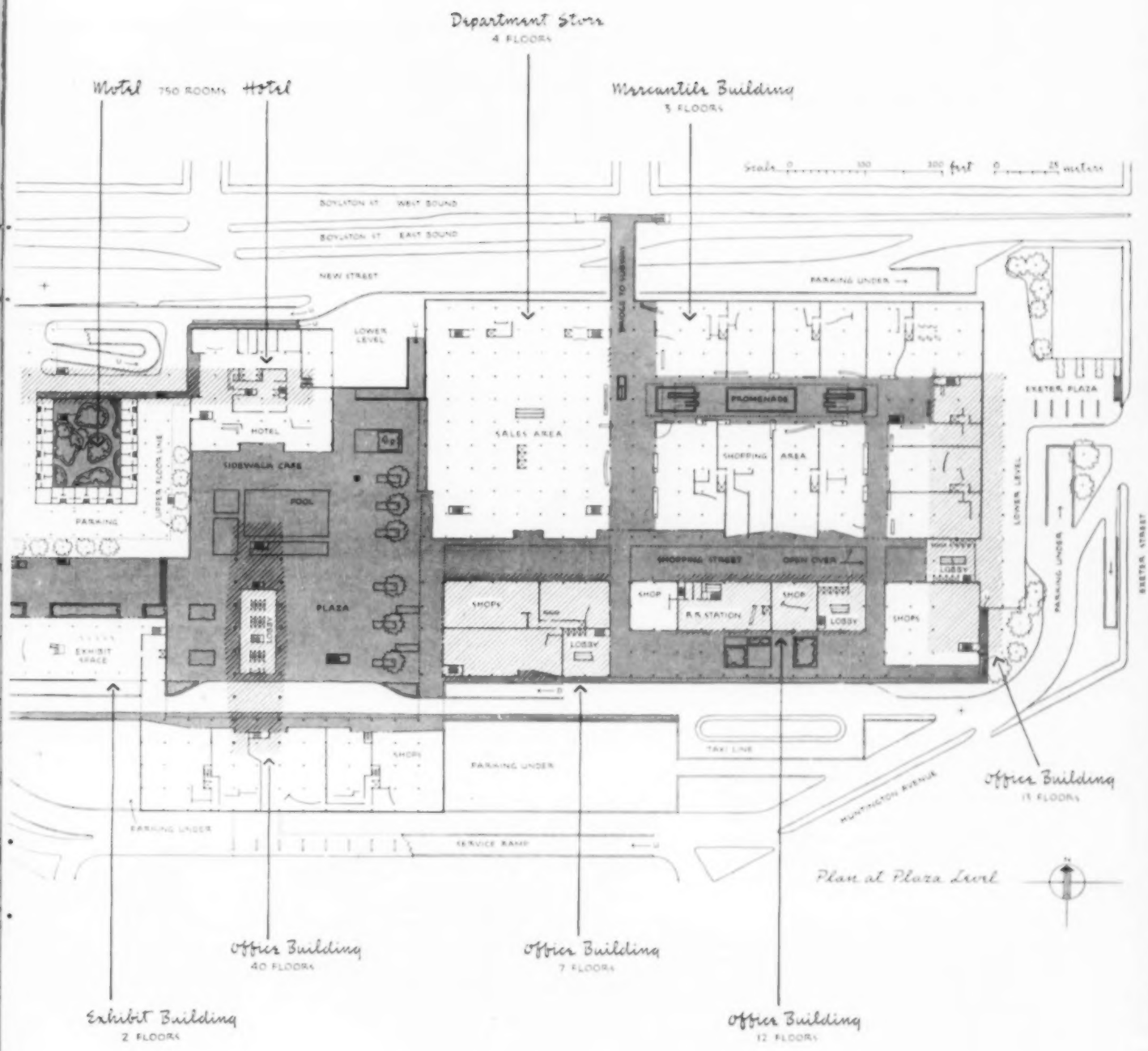
Convention Hall



Boylston Street Level

At the Boylston Street level *(left)*, the triangle at the south side of the site has parking for another 810 cars. Also at this level, in addition to the department-store street floor, is the start of the group of shops surrounding the all-weather shopping promenade. At the important plaza level *(above)* the rail tunnel is finally cleared, joining the whole area into a single great platform, with shopping promenade, street of shops, exhibit spaces, office-building lobbies, etc. A most exceptional proposal *(plan, top of page)* is a storage-service level raised one story above the plaza level.

Boston Center

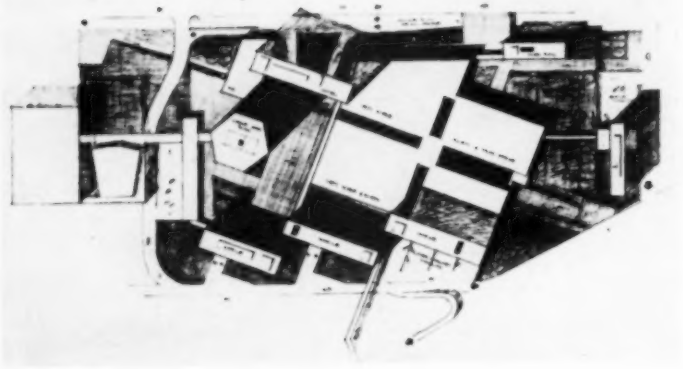


Boston Center

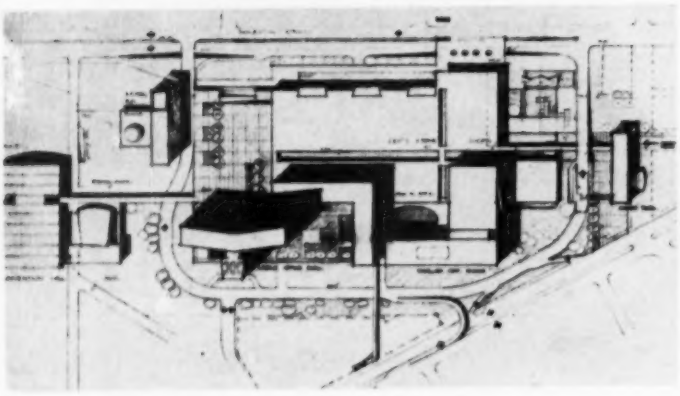
preliminary design stages

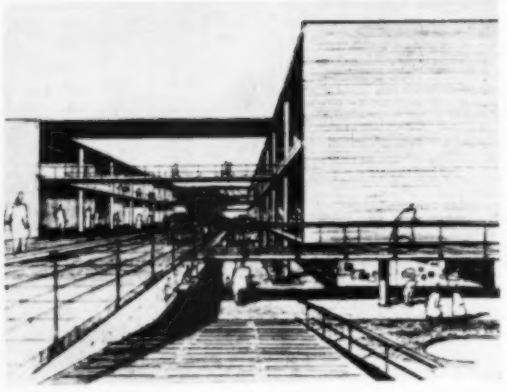
An early design attempt *(below)* recognized the diagonal line of the railroad tracks and made right-angle framing possible across the tracks. It was abandoned—"because pedestrian access was in wrong locations and the group of buildings had no relation to existing city conditions."

1



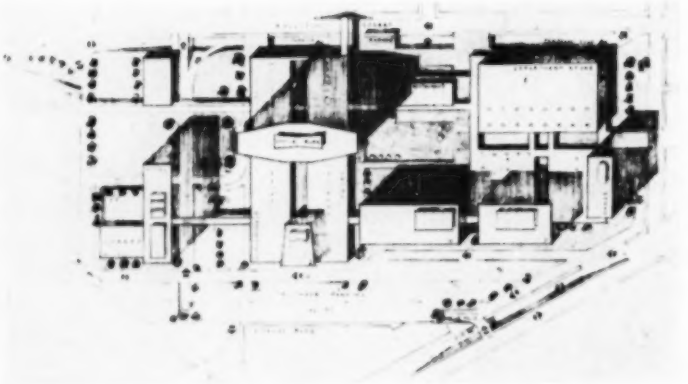
2



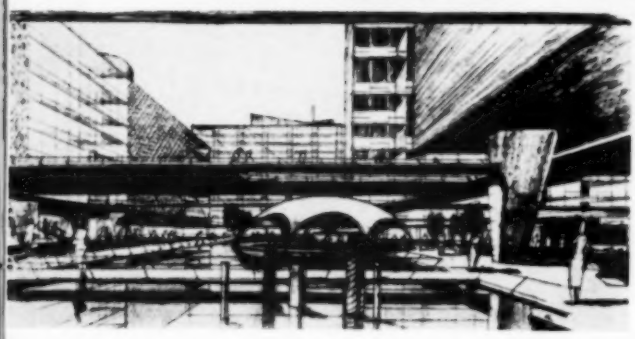


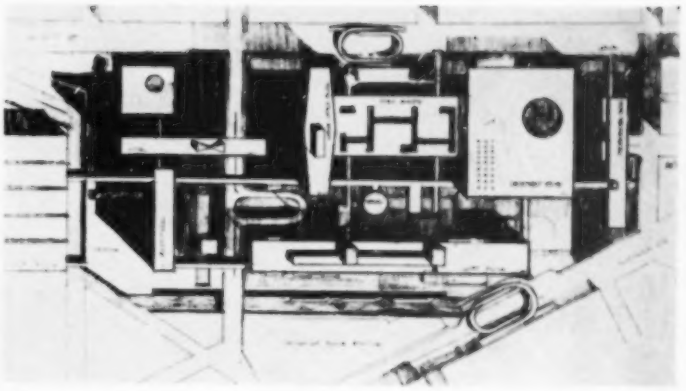
A further development *(plan and perspective above)* places the hotel and department store along Boylston Street and organizes the big office building on an east-west axis. "Shopping too small . . . department store too long . . . only one pedestrian shopping street . . . plaza too big."

3



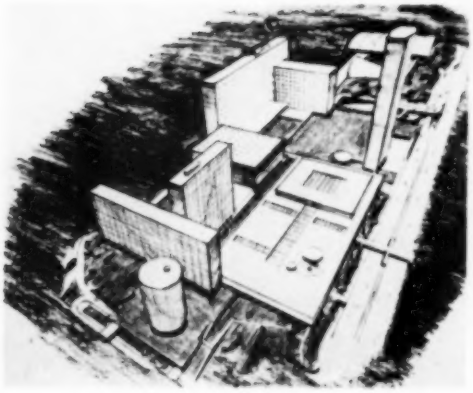
Here the office building and shopping center are grouped and separated from the department store by a large plaza and smaller shops and concessions. Hotel, isolated; three separate office buildings of different shapes and sizes.

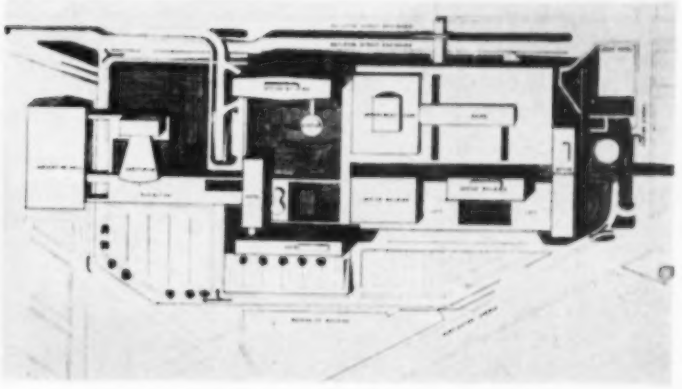




4

One of the more fully developed schemes *(plan and sketches above)* placed department store at corner of Boylston and Exeter Streets, with added shops along Boylston leading to tall office building (now on north-south axis); office buildings grouped in one large flexible unit; cross street introduced to serve hotel, office buildings, and plaza.

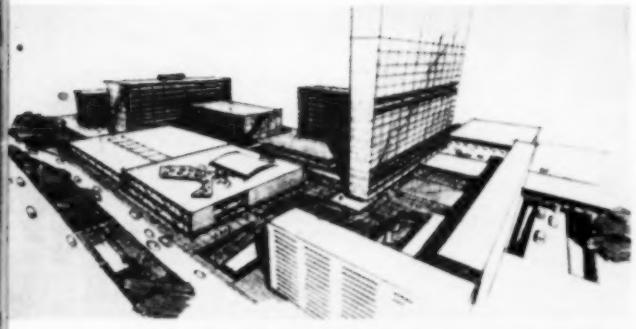


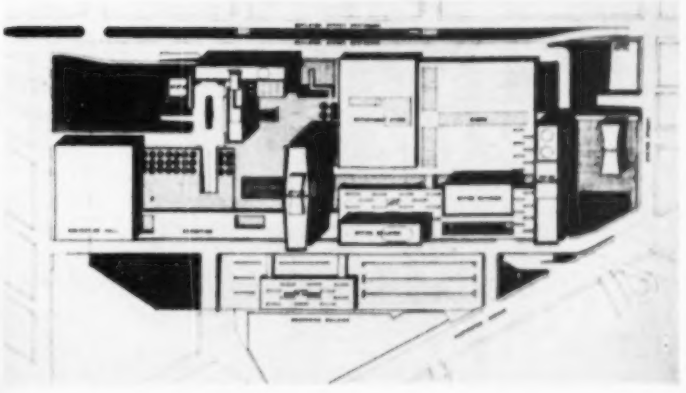


5

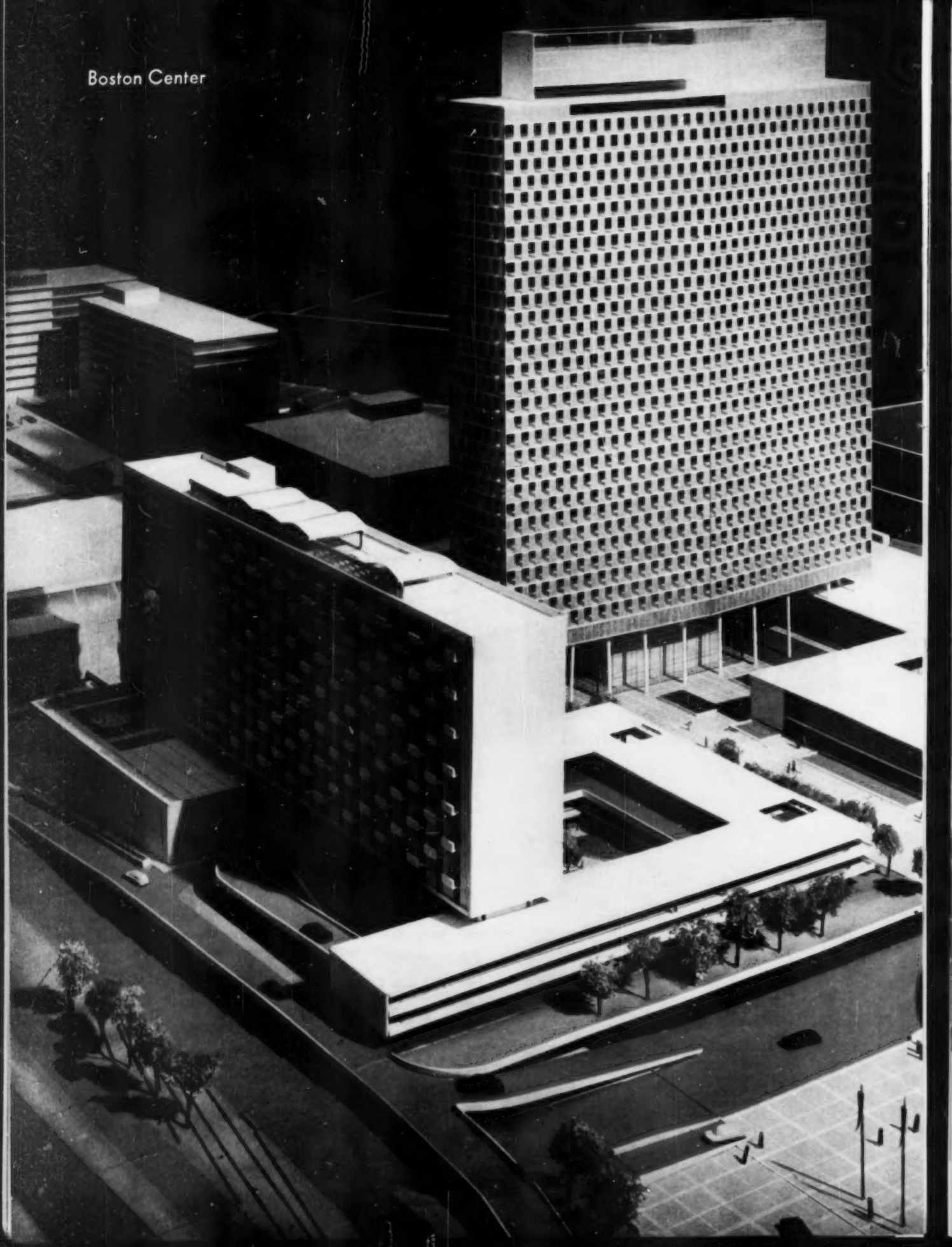
Plan and sketch above show a grouping very close to that of final solution, though office building and hotel placement are reversed.

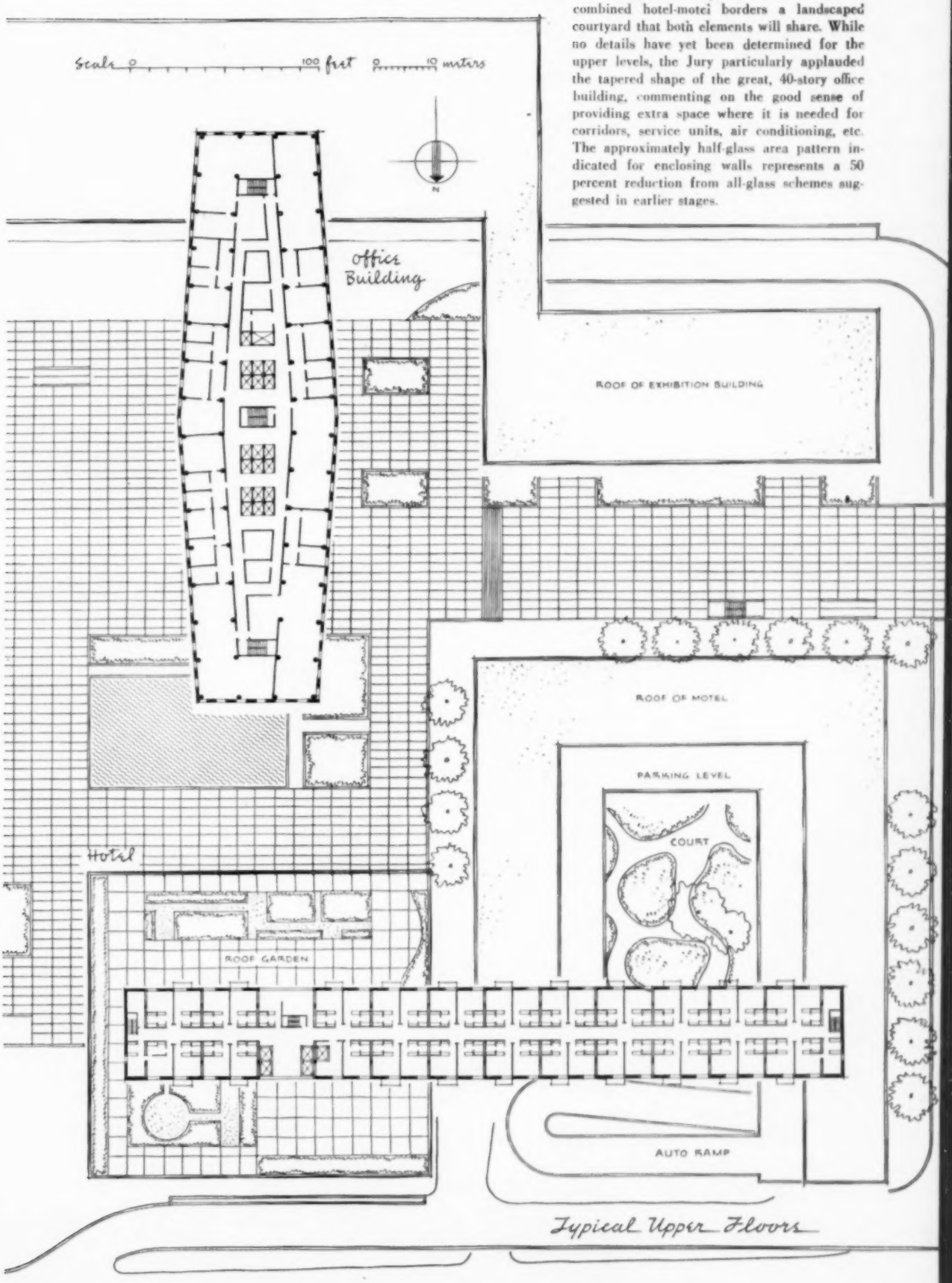
Drawings below constitute the sub-sub finals. The motel was added later; plaza was redesigned; and additional parking was provided.



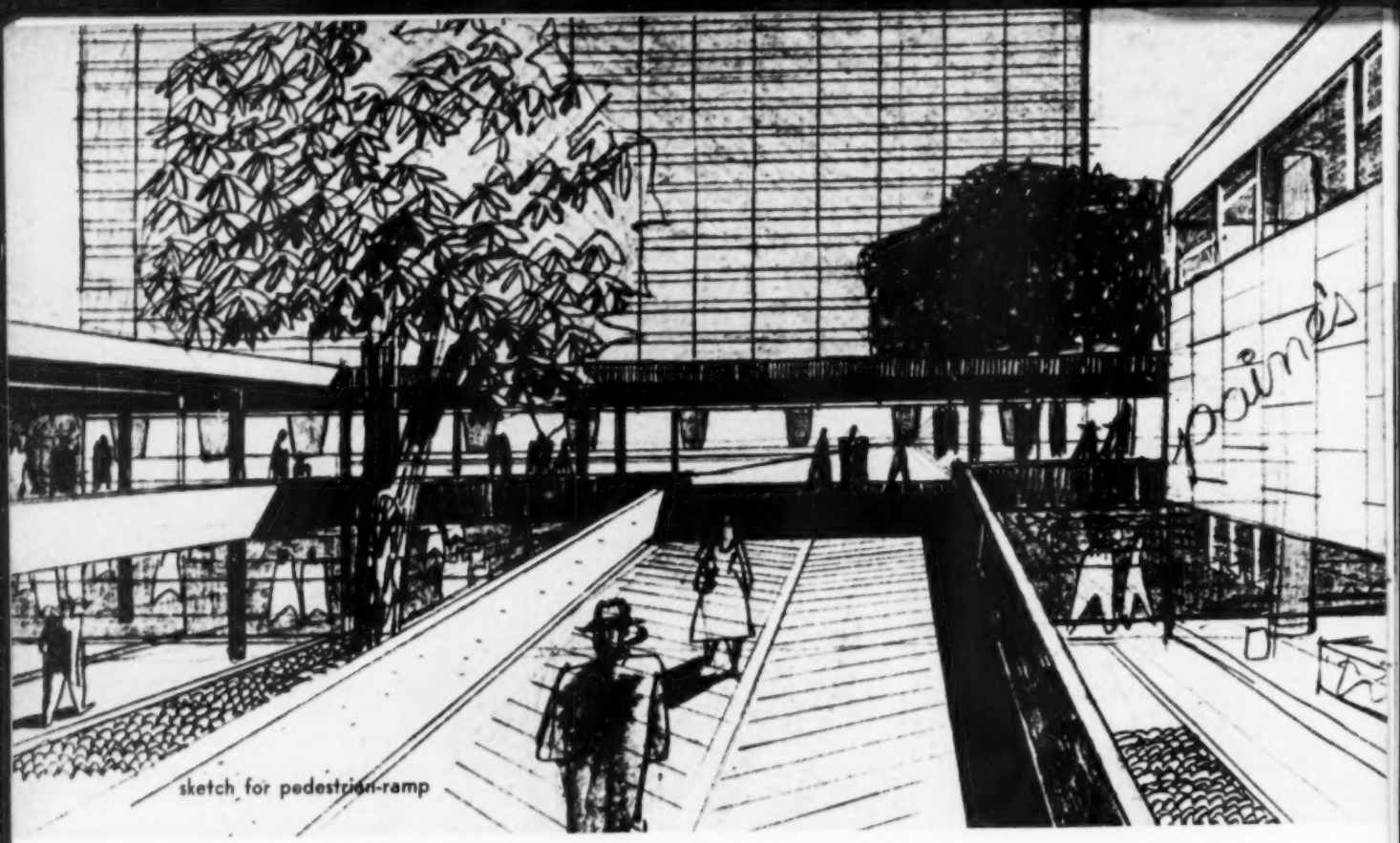


6

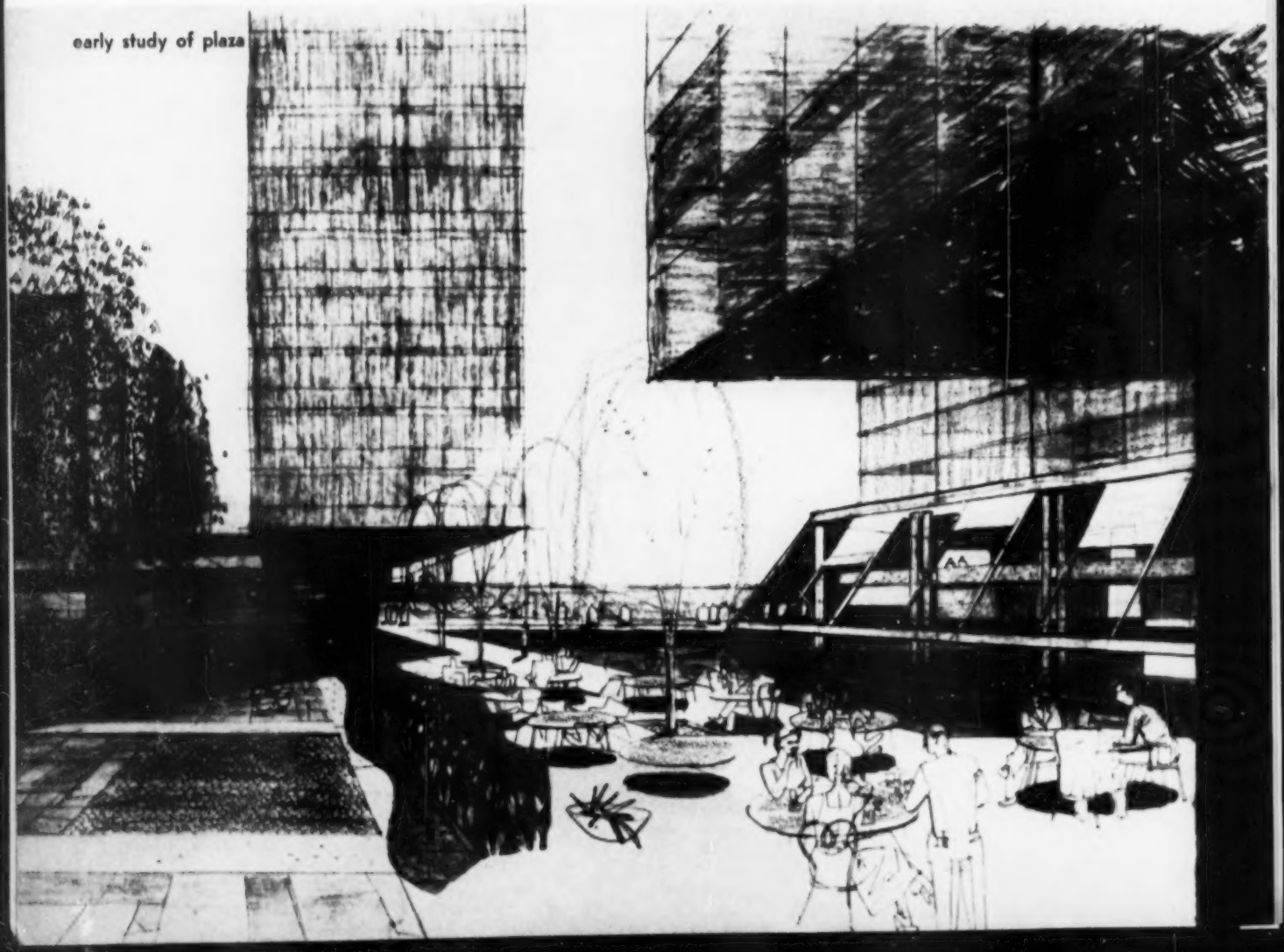

Boston Center



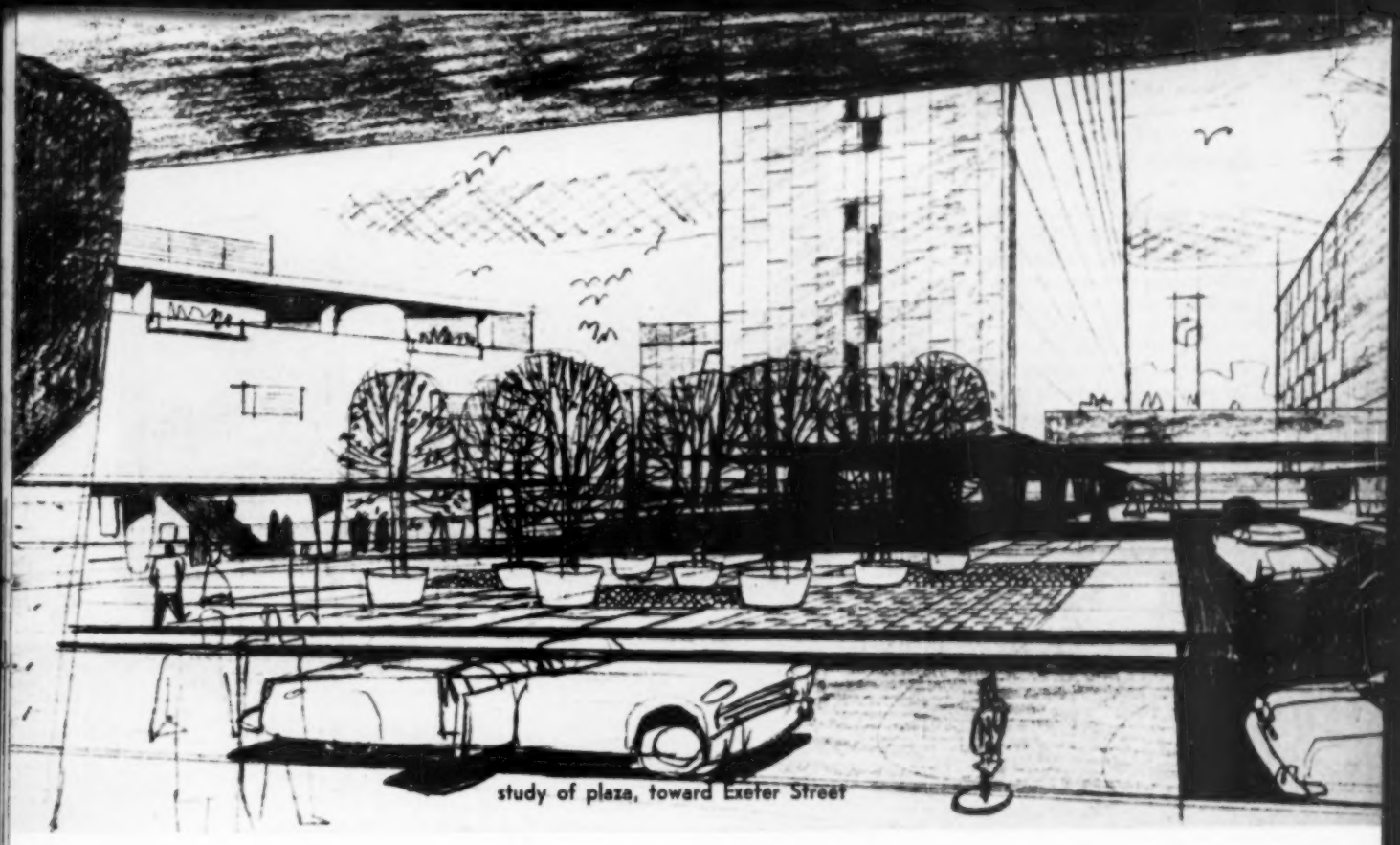
The U-shaped motel portion of the 750-room, combined hotel-motel borders a landscaped courtyard that both elements will share. While no details have yet been determined for the upper levels, the Jury particularly applauded the tapered shape of the great, 40-story office building, commenting on the good sense of providing extra space where it is needed for corridors, service units, air conditioning, etc. The approximately half-glass area pattern indicated for enclosing walls represents a 50 percent reduction from all-glass schemes suggested in earlier stages.



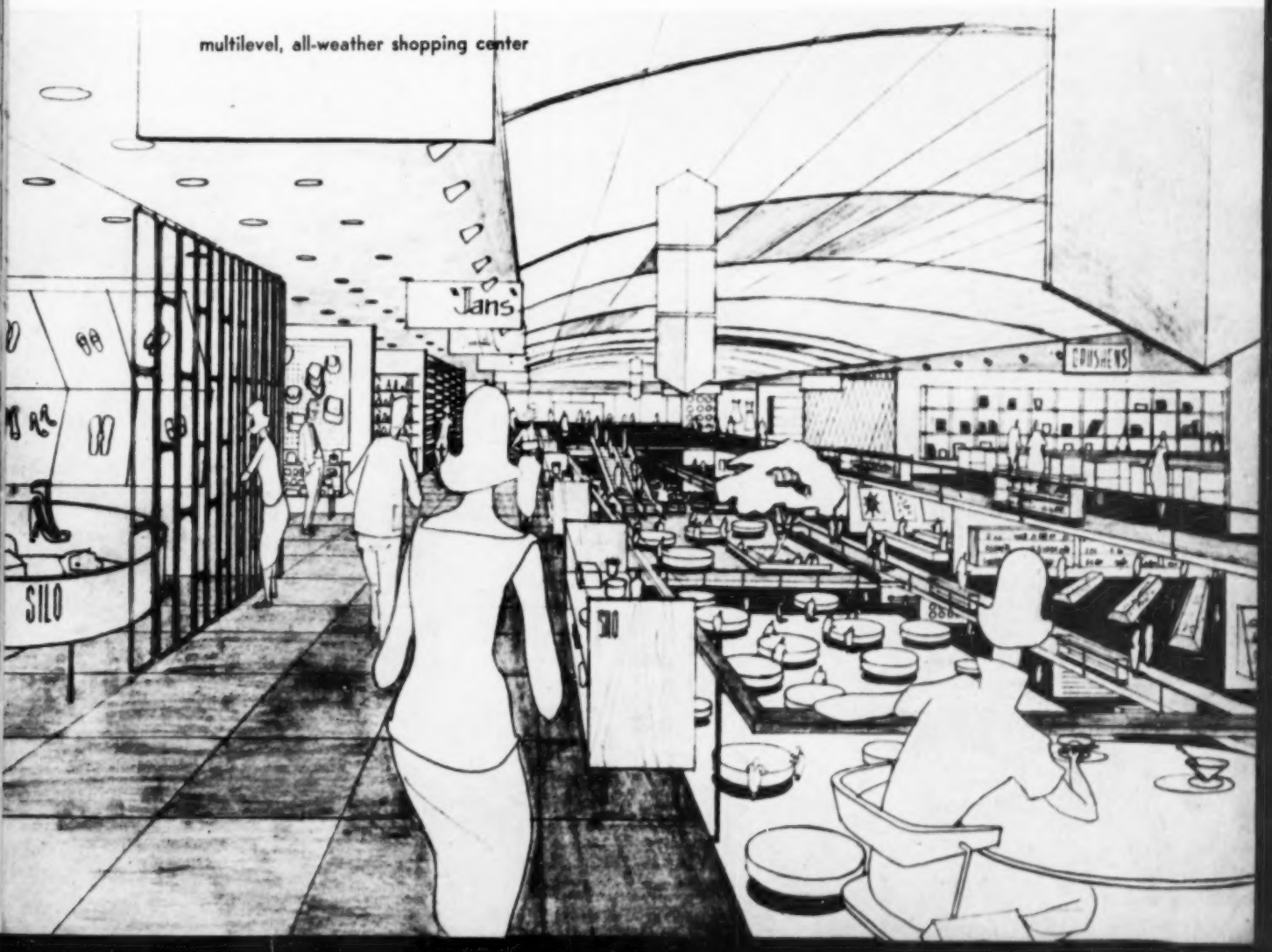
sketch for pedestrian-ramp



early study of plaza

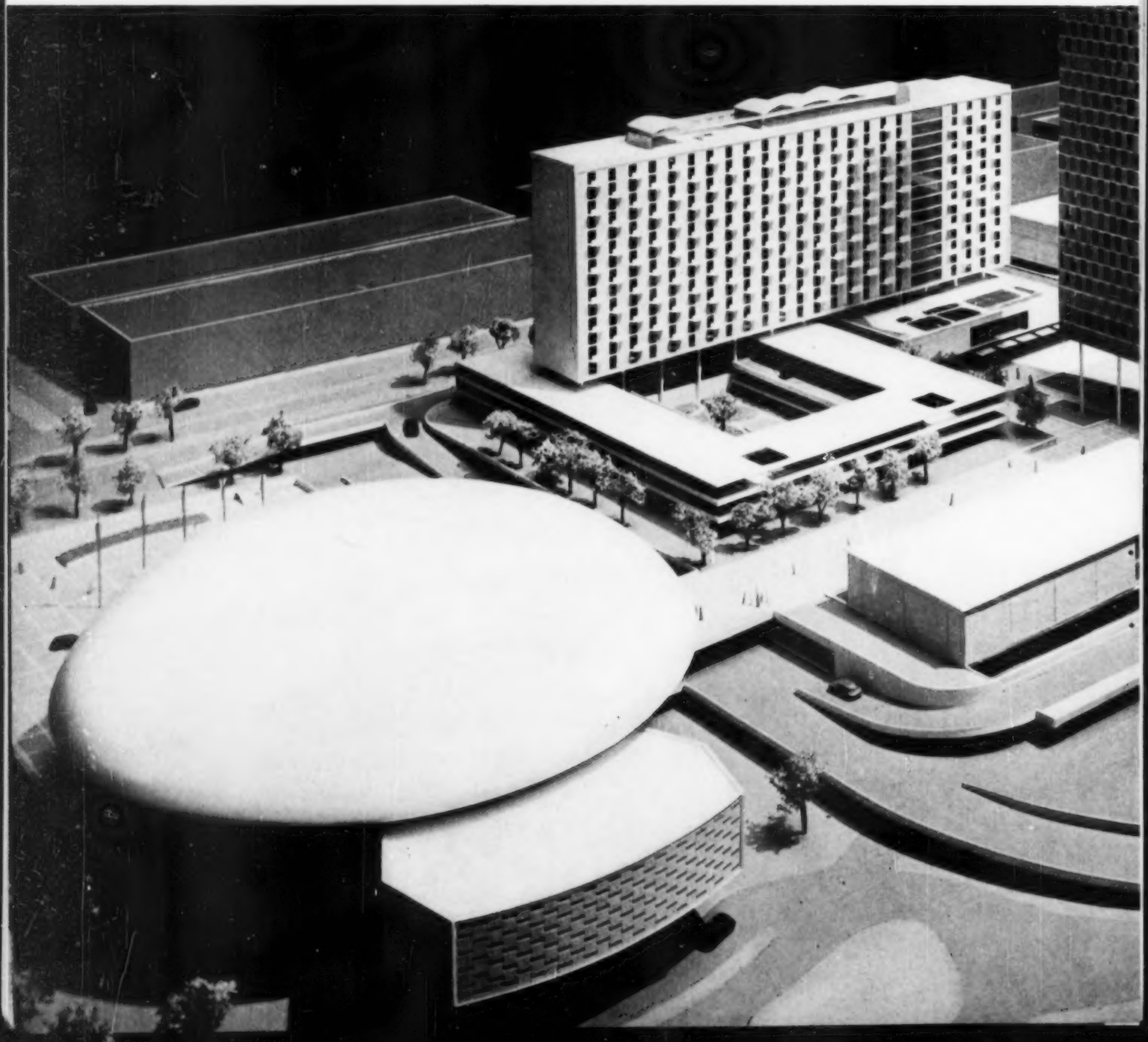


study of plaza, toward Exeter Street



commerce

award citation. Convention Hall for Boston, adjoining the Back Bay Center. Samuel Glaser Associates, Architects-Engineers. The circular structure was designed, along with its deep plaza fronting on Boylston Street, "to integrate the over-all facilities with the interests of New England industries and of the visiting public." Permanent exhibits of local industrial accomplishment would be on view at all times. The building includes a Convention Hall and Auditorium with maximum flexibility to meet small convention exhibit needs for a single convention or for a group of two or three small conventions held concurrently, or for one very large gathering. Available floor area in Convention Hall—33,000 sq ft; outdoor exhibit area in plaze—38,400 sq ft.



commerce

The Jury awarded the Boston Center project *(already shown)* the Design Award in the Commercial category, before giving it, finally, the top honor of all—First Design Award.

Design of buildings for commercial use will again become an extremely active part of the architects' practice in 1954 (it is the second most active building category in P/A's Business Forecast) and it provided some of the most stimulating designs in the Awards Program. Among the office buildings submitted, the Jury felt that the influence of the United Nations group, and of Lever House, was often apparent; and that, perhaps for this reason, few contributions in a further direction had been made either in structure or design. The Jury was satisfied, however, that the best of the group submitted were done with admirable sensitivity and taste, and that the continuing search for a wall system that is structurally satisfying and at the same time works well for functions within the office building had produced some interesting design results.

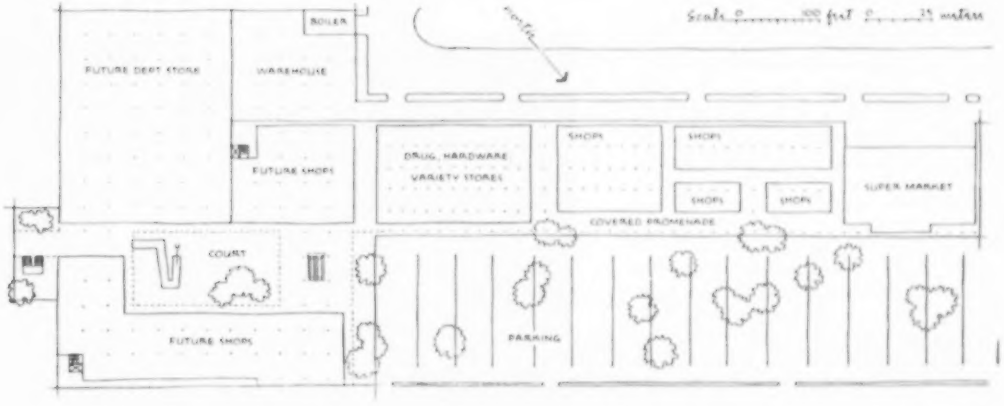
Members of the Jury reserved most of their favorable comments for the more utilitarian, publicly used type of commercial structure—parking facilities, banks, shopping centers, and so on. The type of building that needs to attract customers, and must incorporate display advertising in its design, seemed to be designed less well.

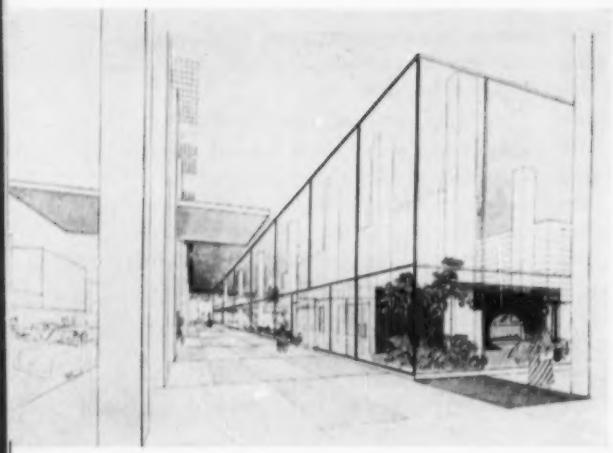
An interesting development, pointed up sharply by the entries, is the ever-growing influence of the automobile on commercial structures. Seven of the nine buildings cited in this category are designed with off-street parking facilities which constitute major elements of the over-all designs; four of them have parking space within the structure itself.

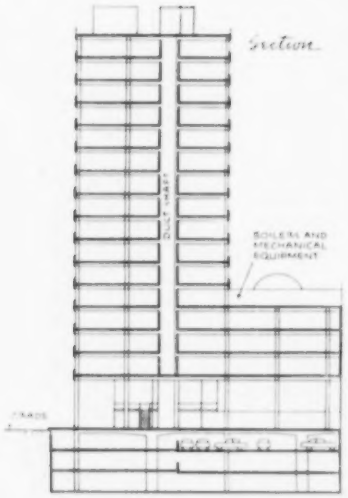
Freedom in planning and a thorough analysis of the functional problems involved were also noted.

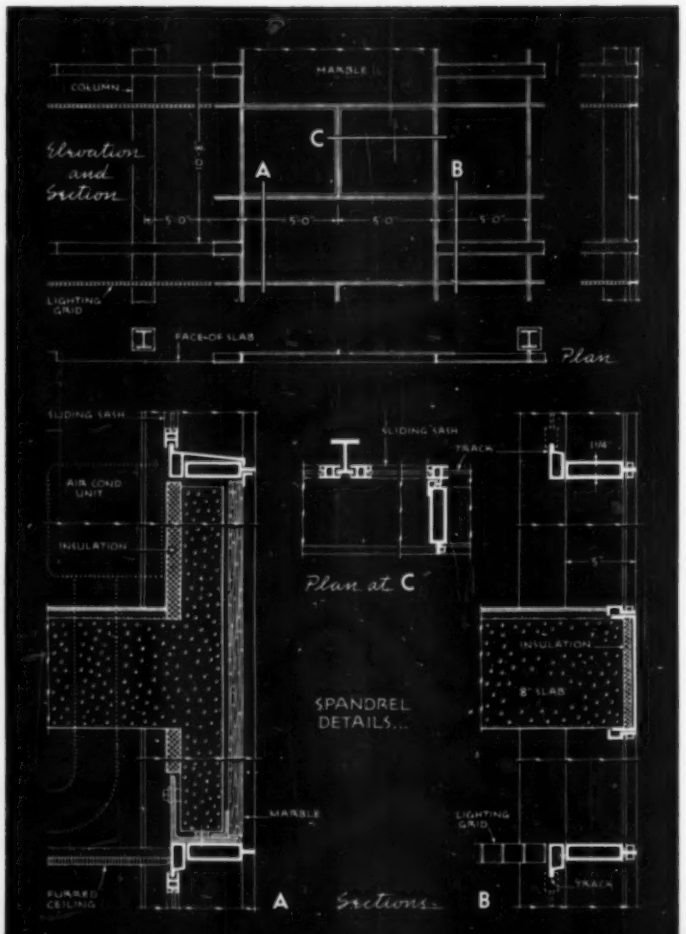
citations

award citation. Cedar Hills Shopping Center, Cedar Hills, Oregon: Belluschi and Skidmore, Owings & Merrill, Architects; Cooper & Rose, Structural Engineers; George Pettingell, Grant Kelley & Company, Electrical Engineers; J. Donald Kroeker & Associates, Mechanical Engineers. The problem was to provide this Portland suburb with a shopping center of approximately 400,000 sq ft of sales area, on an extremely difficult site bisected by a road.



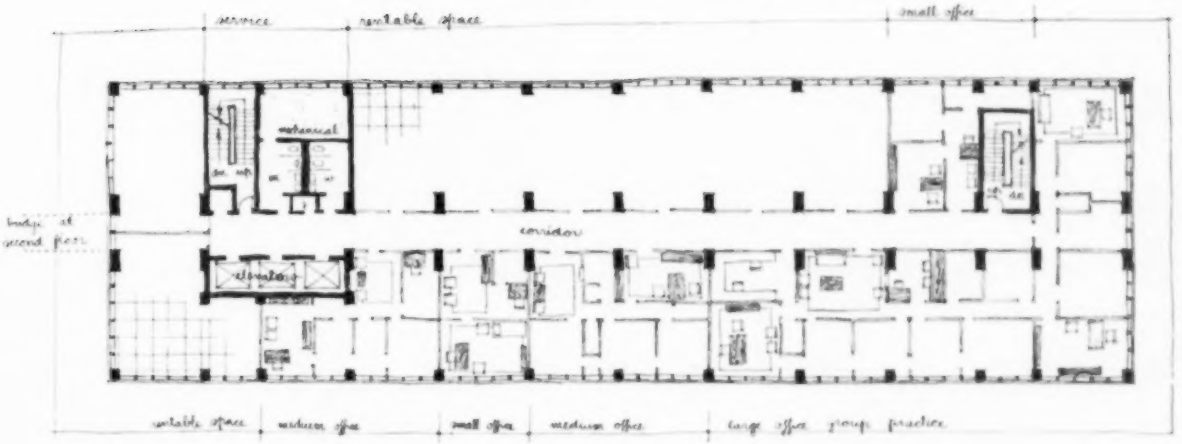


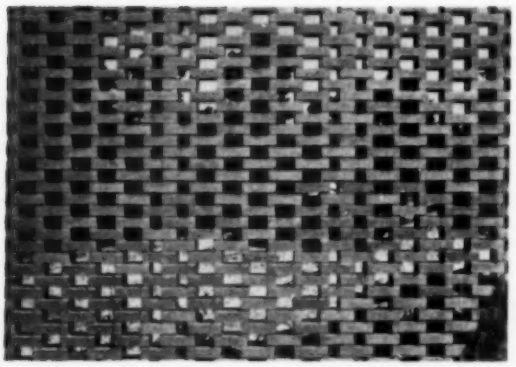


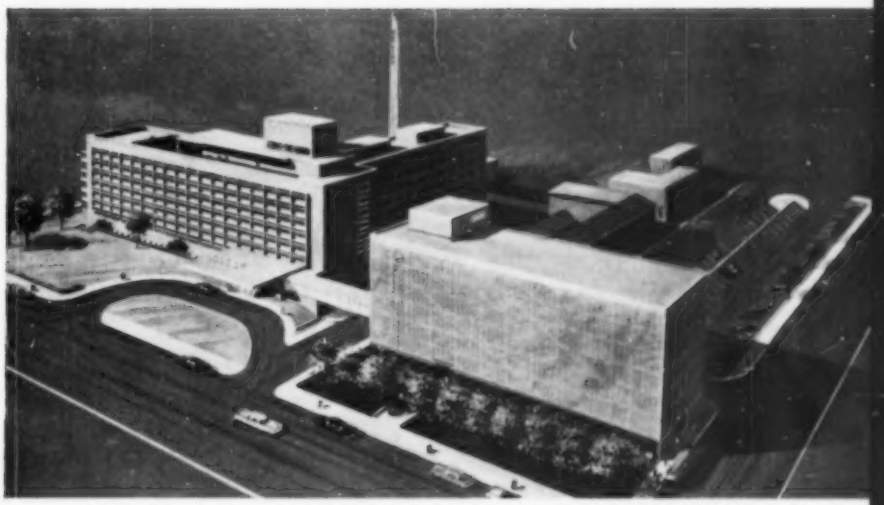


award citation. Office Building, McCormick Estate, Chicago, Illinois: The Architects Collaborative—Jean B. Fletcher, Norman Fletcher, Walter Gropius, John C. Harkness, Sarah Harkness, Robert McMillan, Louis A. McMillen, Benjamin Thompson and Arthur Myhrum, Associate—Architects; General Engineering Associates, Engineers; Walter Gropius, Job Captain. The relatively open ground floor provides a lobby, lunch counter, elevators and automobile ramps which lead to underground parking. The mezzanine consists entirely of a restaurant and a large kitchen. Marble slabs on the exterior walls indicate the location of individual air-conditioning units; windows around them will not be fixed, so may be opened when natural ventilation is desired.

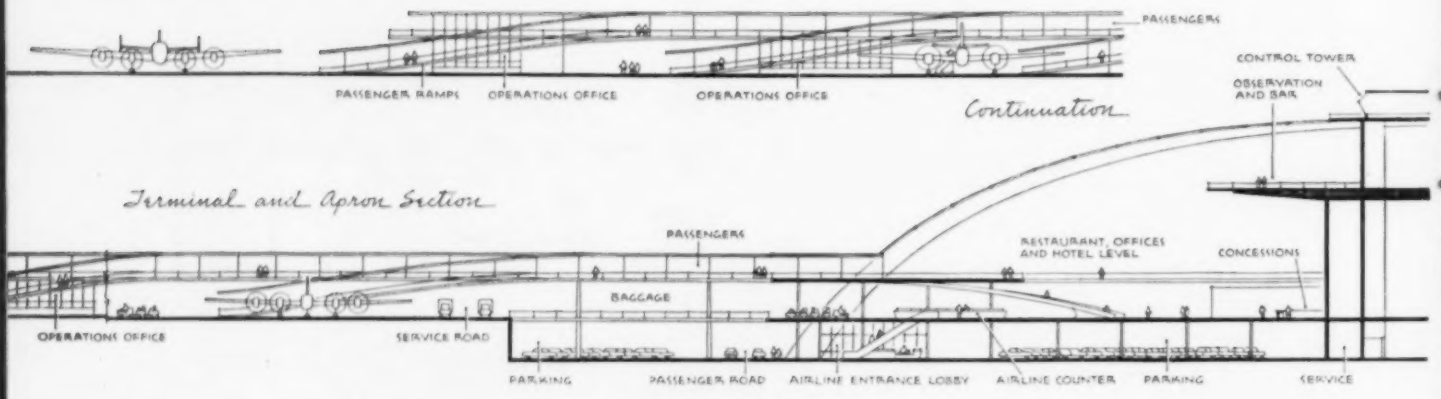
award citation. Professional Building, Georgia Baptist Hospital, Atlanta, Georgia: Stevens & Wilkinson, Architects-Engineers. Part of an expansion program underway at Georgia Baptist Hospital (*July 1951 P/A*), this office building is connected to the hospital at the second-floor level by an enclosed bridge. The jury noted particularly the light brick screen on the front.

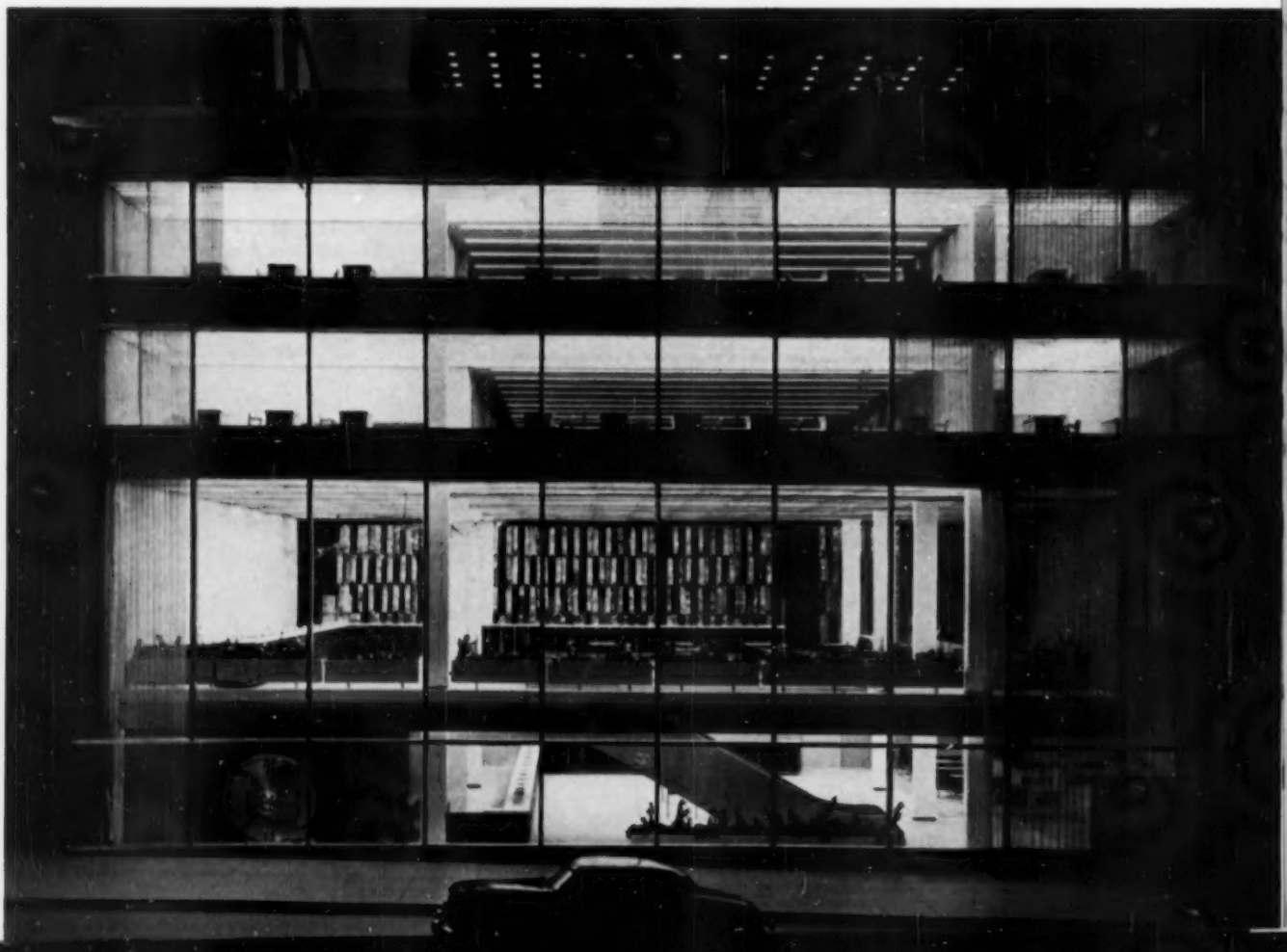


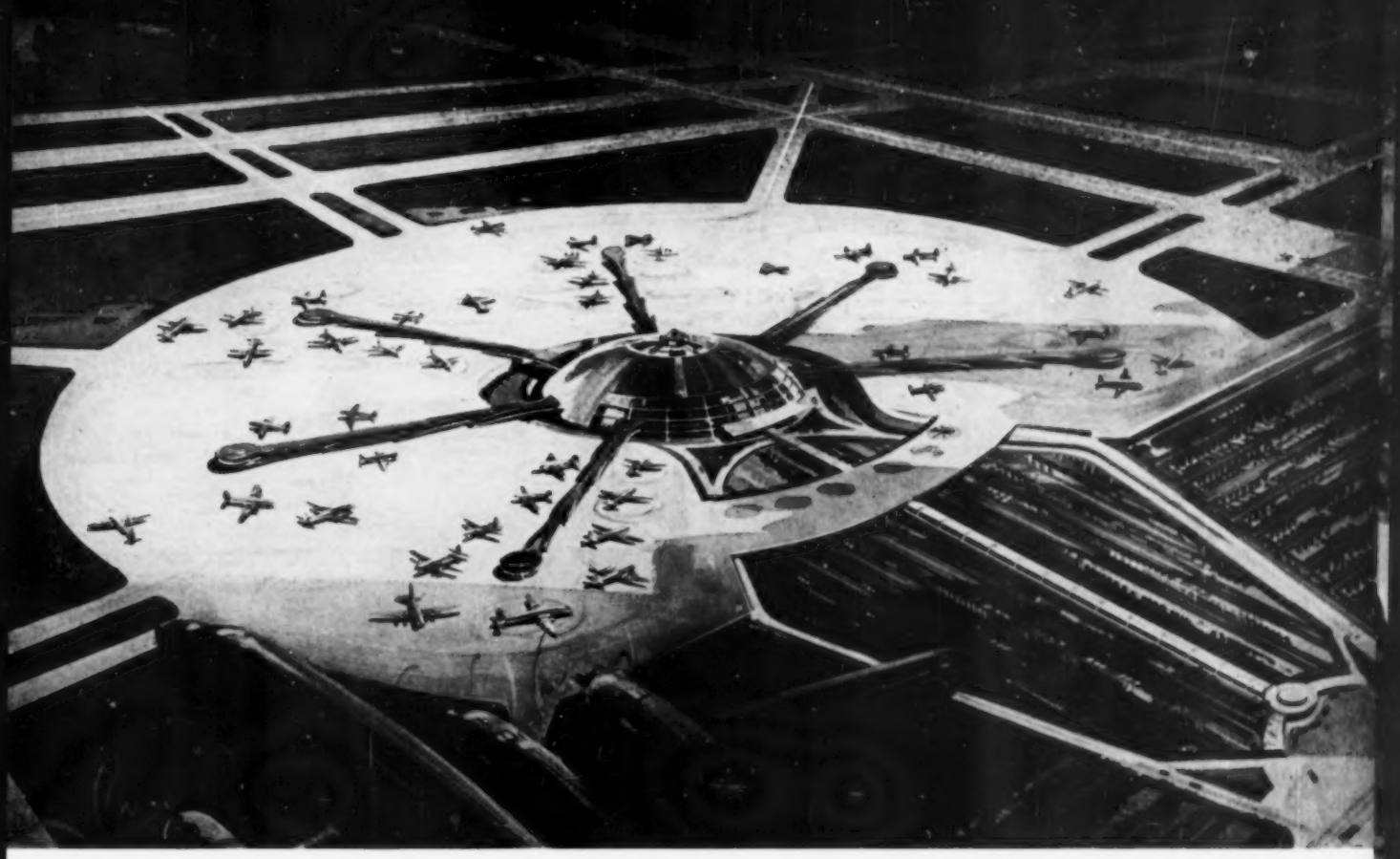


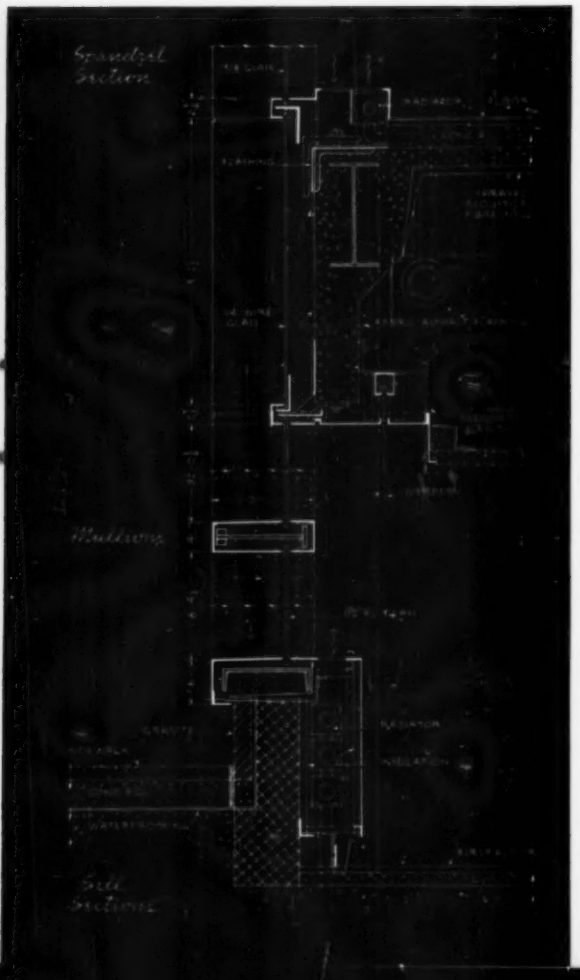


award citation. Master Plan and Terminal Building, Los Angeles International Airport, Los Angeles, California: Pereira & Luckman, Architects-Engineers. The problem here was first to plan an adequate airport and then to design the terminal building, occupying a new location central to old and new runways. Radiating decentralized loading-station plan and segregated passenger- and baggage-circulation patterns were particularly noted.

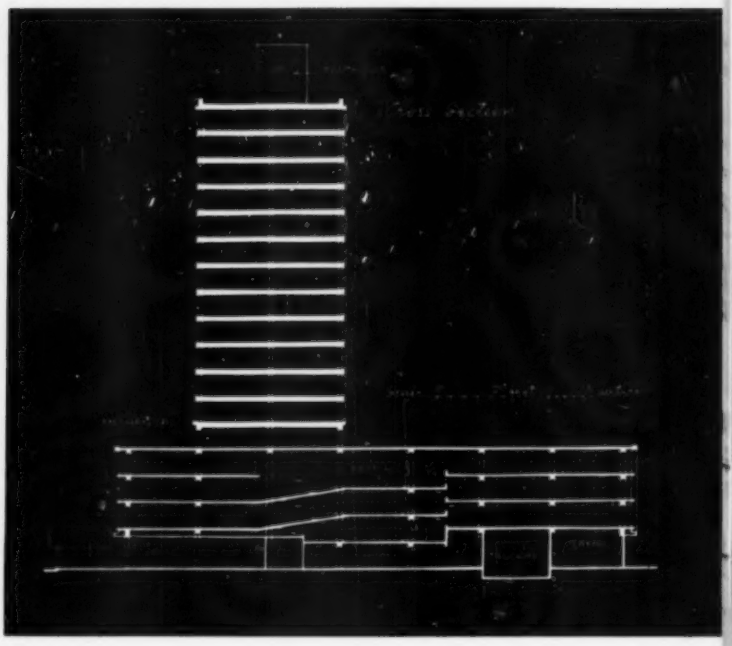




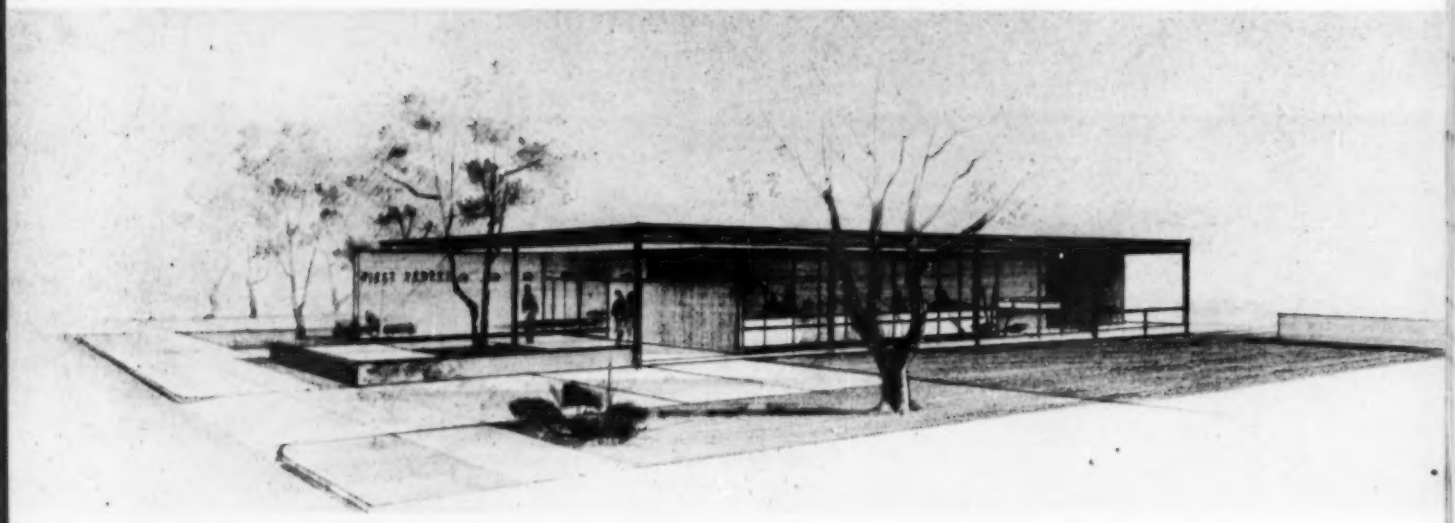




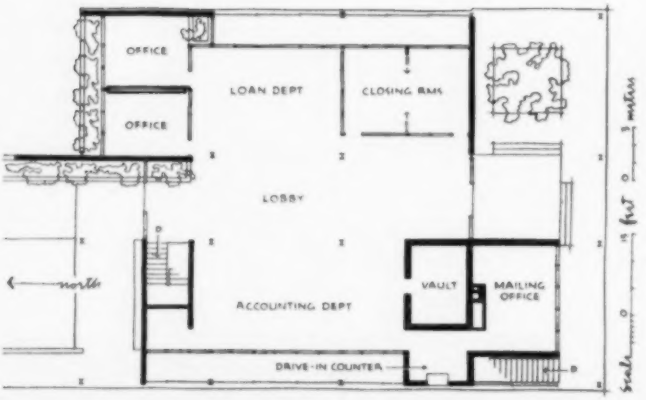
award citation. Fifth Avenue Office of Manufacturers Trust Company, New York; Skidmore, Owings & Merrill, Architects; Weiskopf & Pickworth, Structural Engineers; Syska & Hennessy, Inc., Mechanical Engineers; Eleanor LeMaire, Interior Design Consultant; vault door by Henry Dreyfuss; bronze screen by Harry Bertoia. Volume transactions such as payroll, special checking, and check cashing will take place on the ground floor. The main banking space, for commercial accounts and senior officers, is to be one floor above street level and reached by escalator. The third and fourth floors will contain banking offices and the personal-loan department. In the penthouse will be reception lounges, dining rooms, and executive offices.



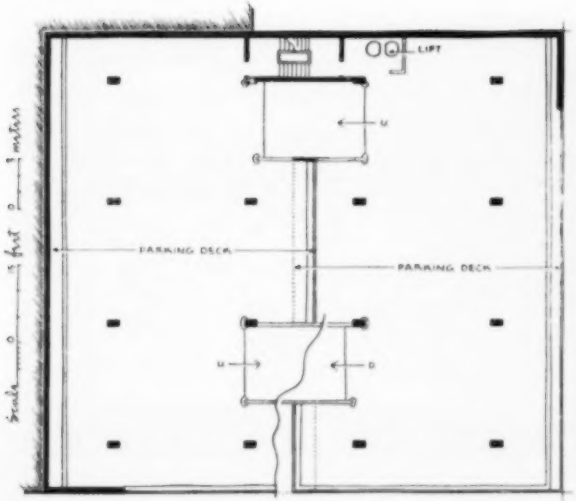
award citation. Center Medical Building, Houston, Texas: Golemon & Rolfe, Architects; Skidmore, Owings & Merrill, Consulting Architects. Primarily an office building, its first floor is given to shops and to the car entrance. The next three floors are open parking decks connected by ramps (*section right*). From the fifth floor the office tower rises twelve more stories. The structure of the lower mass is of reinforced concrete; fireproofed steel is used in the office tower.

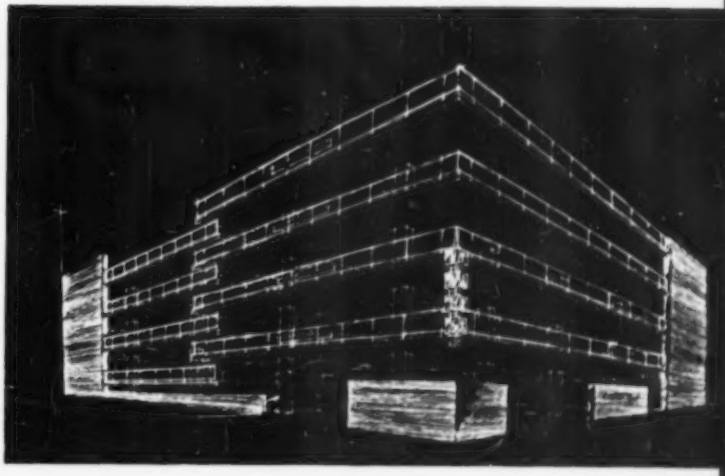


award citation. Bank Building for First Federal Savings & Loan Association, Denver, Colorado: William C. Muchow, Architect; Milo S. Ketchum, Structural Engineer; Swanson-Rink & Associates, Electrical Engineers; M. S. Wilson, Mechanical Engineer. The Jury felt that the dignity of its understatement makes this building unusually interesting for its type. With a straight-through driveway, drive-in patrons can be served with a minimum of confusion.



award citation. Williams Parking Deck, Atlanta, Georgia: Aeck Associates, Architects; Richard L. Aeck and David J. Murphy, Designers; I. E. Morris & Associates, Structural Engineers; Donald Lindstrom & Associates, Mechanical Engineers; Charles F. Howe, Electrical Engineer; Wesley & Co., Inc., Contractor. One half of the existing basement is filled four feet and the other half excavated one foot. Thus, the upper half of the basement will overlap the lower half as the decks above ground do, with a design result that the Jury felt was well handled.



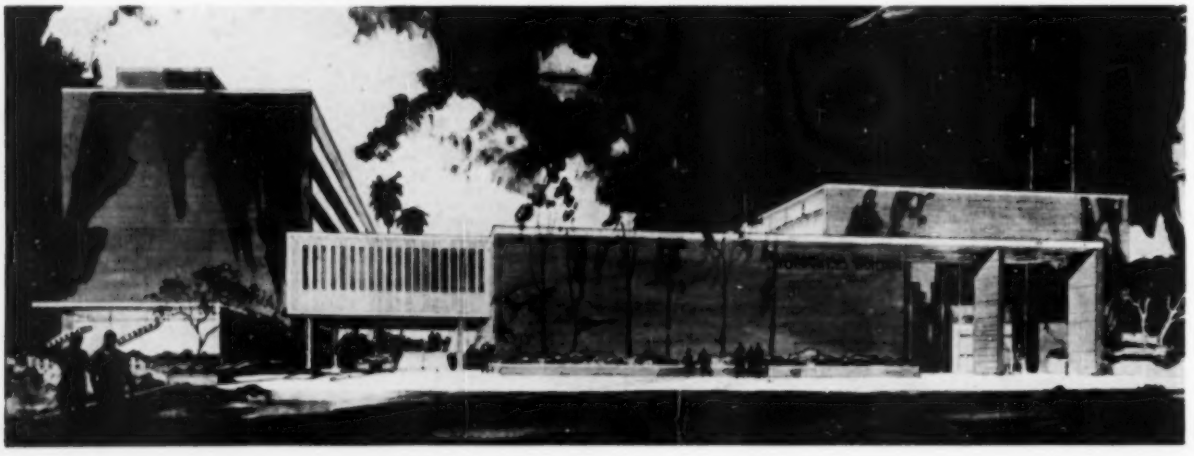


education

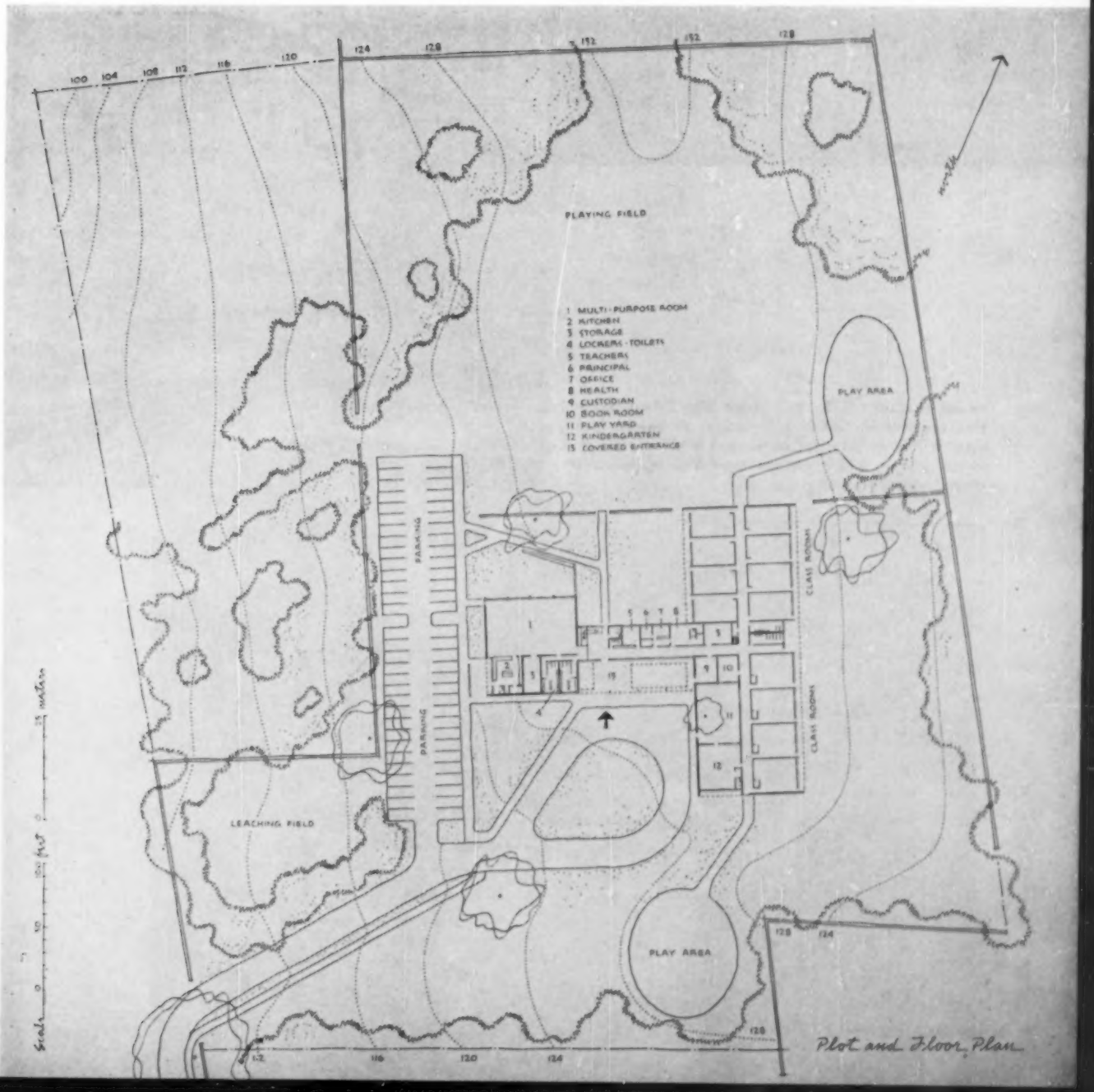
The Jury's opinion of buildings in the Education category was aptly stated by Victor Gruen: "We find ourselves in a sad situation—because school building is generally pretty good, we must throw out many good things." As a result of the generally high level of work here, the Jury did have a particularly difficult time deciding what to cite and what to leave out. It was impossible for them to choose one for a Design Award above all others —hence the number of Award Citations. Design for Education was far and away the most active building type reported in our Business Survey for 1954. In every region it is either at, or near, the top. Even more interesting, we believe, is the fact that this work is being spread to a large number of firms—64 percent of the reporting architects had some educational work on the boards. School needs have become so pressing that they can no longer be ignored. And a gratifying result seems to be that design standards in this field have reached a very high level. The conclusion to be drawn from work submitted this year does not serve to support any special theories about classroom arrangement, lighting, or orientation, since nearly every possibility was encountered, and of those cited none was conspicuously better than another. The Jury saw classrooms oriented in every direction; in a single bank with one exterior or interior corridor; in double banks with one central corridor; constructed with concrete, steel, aluminum, and wood. All of them seemed to have made good use of these materials, and all of them were well lighted and ventilated. Parking and circulation for the visiting public (many of the schools also will serve as community meeting places) were well worked out. Thus, as a group, these buildings represent a consolidation of experience and technical knowledge in this field, which has enjoyed the benefits of specialized research.

citations

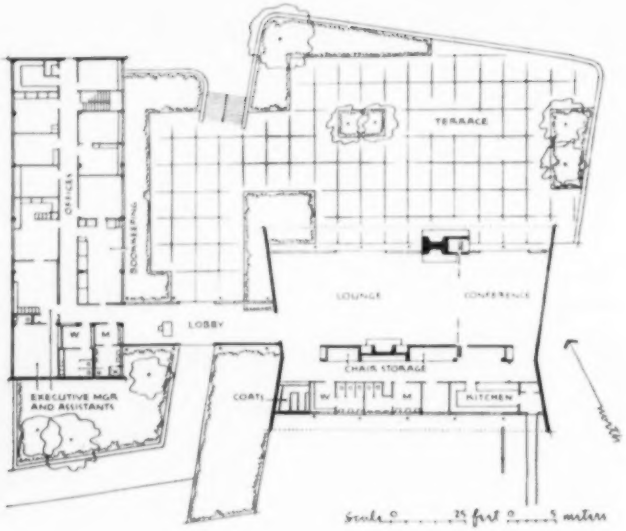
award citation. Humanities Building, University of California at Los Angeles, California: Austin, Field & Fry, Architects; Welton Becket & Associates, Supervising Architects. The floor construction is lift-slab. Problem of conforming to the existing campus is solved by use of a colored brick similar to that of present buildings.



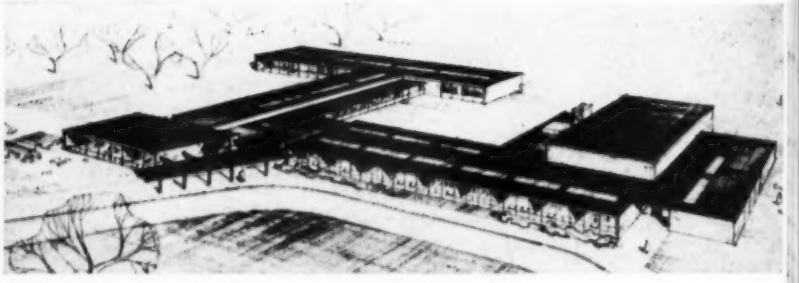
award citation. Bantam Elementary School, Litchfield, Connecticut: Marcel Breuer and O'Connor & Kilham, Architects Associated for Litchfield Schools. The multipurpose room is connected to the classrooms by a row of administrative offices. All classrooms open both to the outside and to the inside corridor. There are separate play areas for the kindergarten and two other age groups.

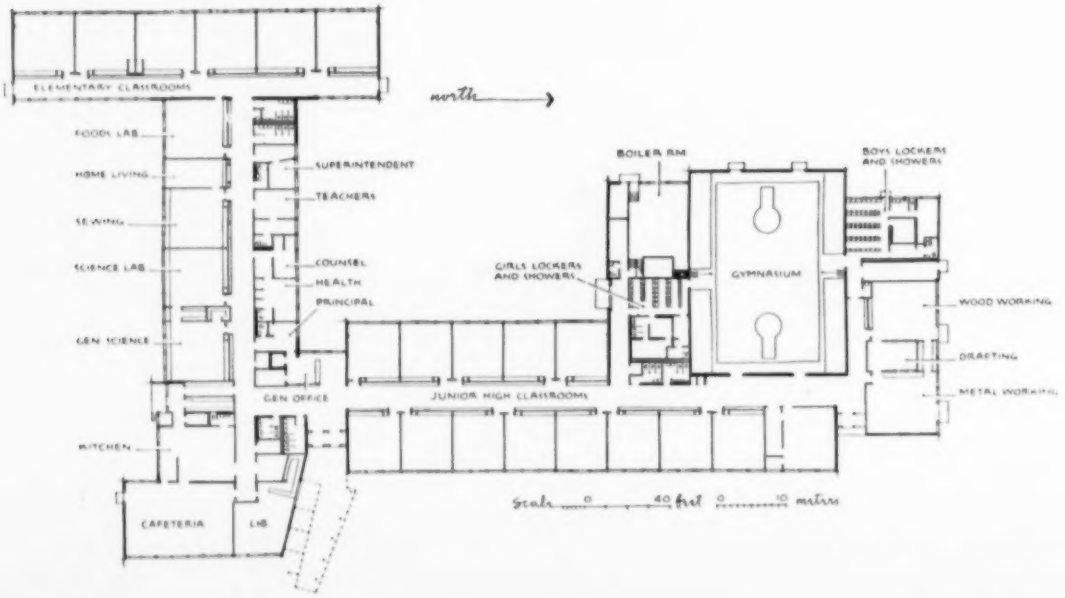


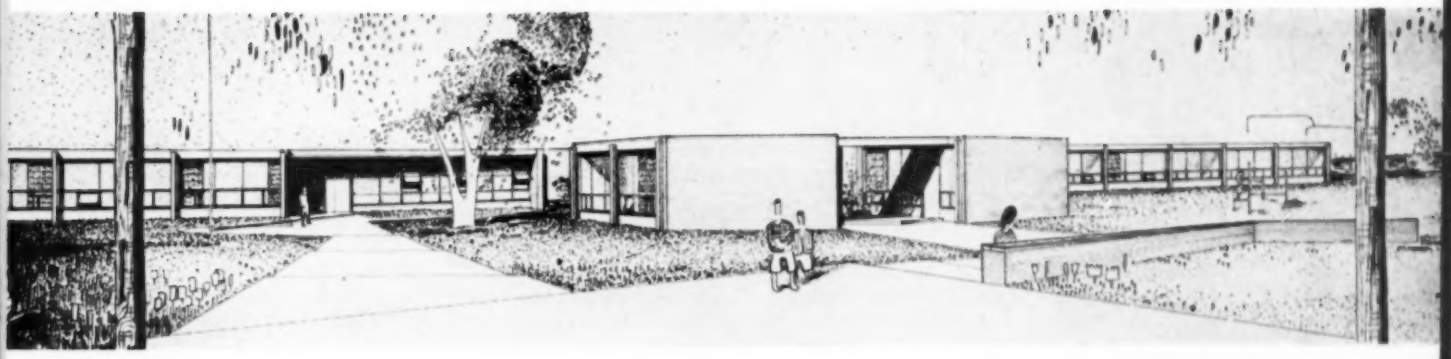
award citation. Alumni House, University of California, Berkeley, California: Clarence Mayhew, Architect; August E. Waegemann, Structural Engineer; Stelmec Engineers, Electrical-Plumbing-Heating Engineers. The lounge wing and the office wing are separated by a glass corridor which serves as a lobby. The butterfly roof of the lounge wing opens up vistas toward the San Francisco Bay, to the west, and the mountains, to the east.

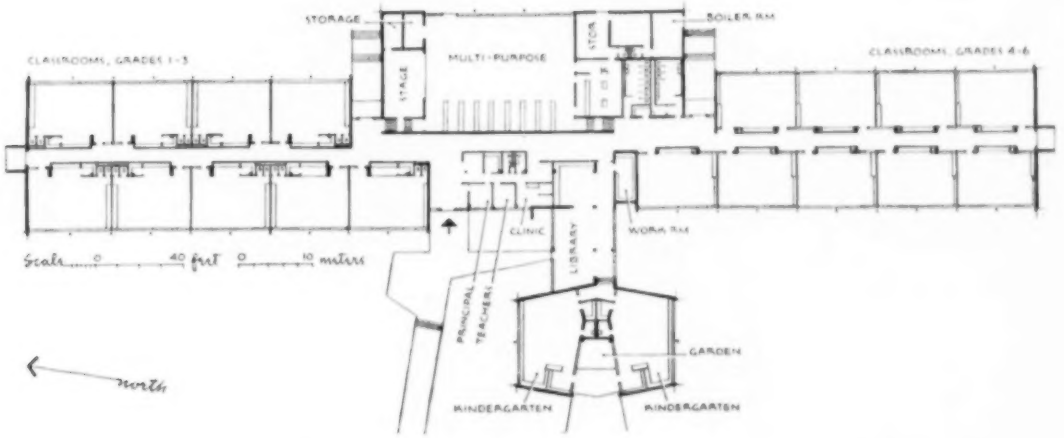


award citation. Rocky Hill Junior High School, Rocky Hill, Connecticut: Nichols & Butterfield, Architects; Marchant & Minges, Structural-Mechanical Engineers. An extended scheme, with classrooms top-lighted by apertures through what is planned as a lift-slab.

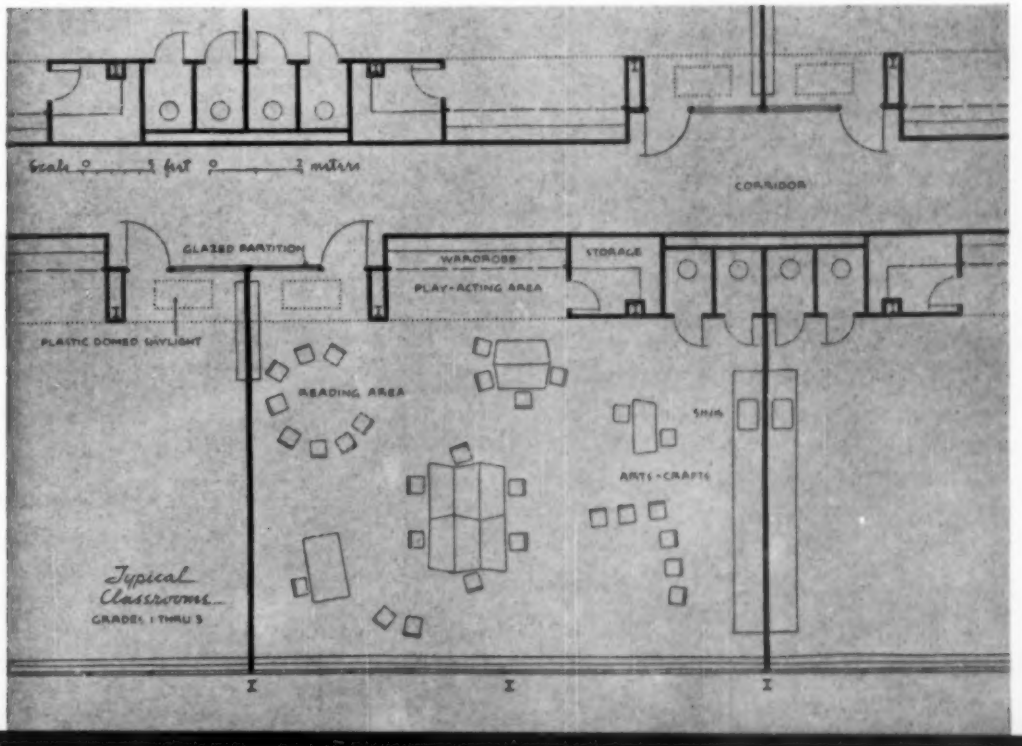




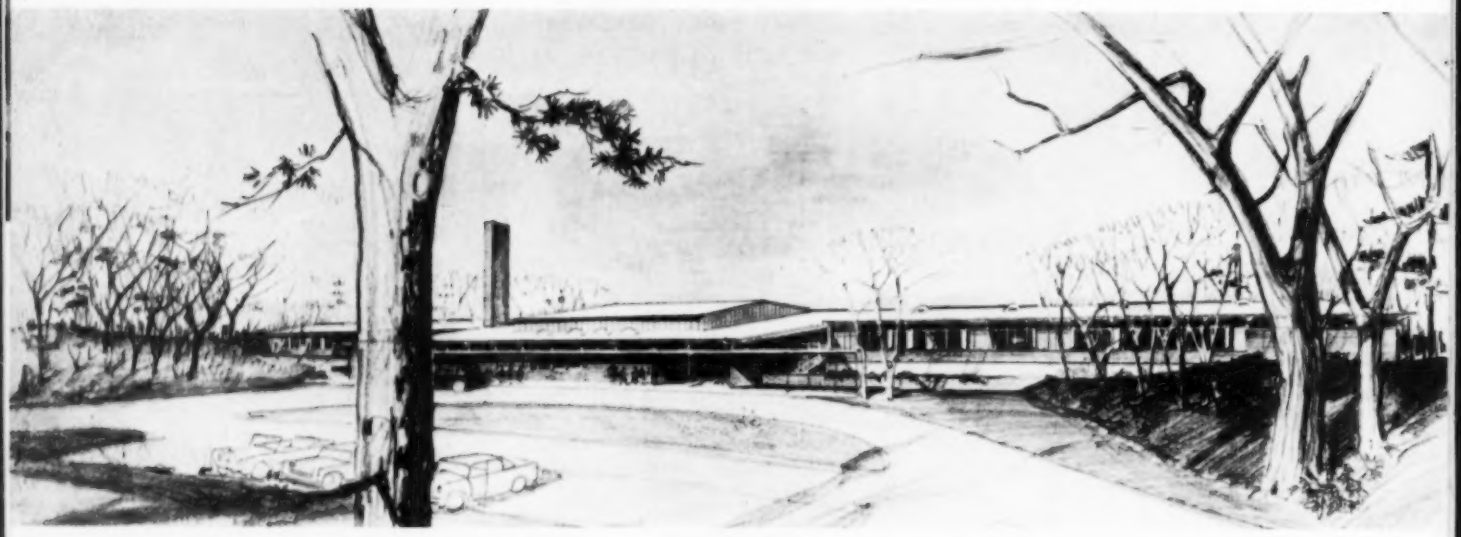


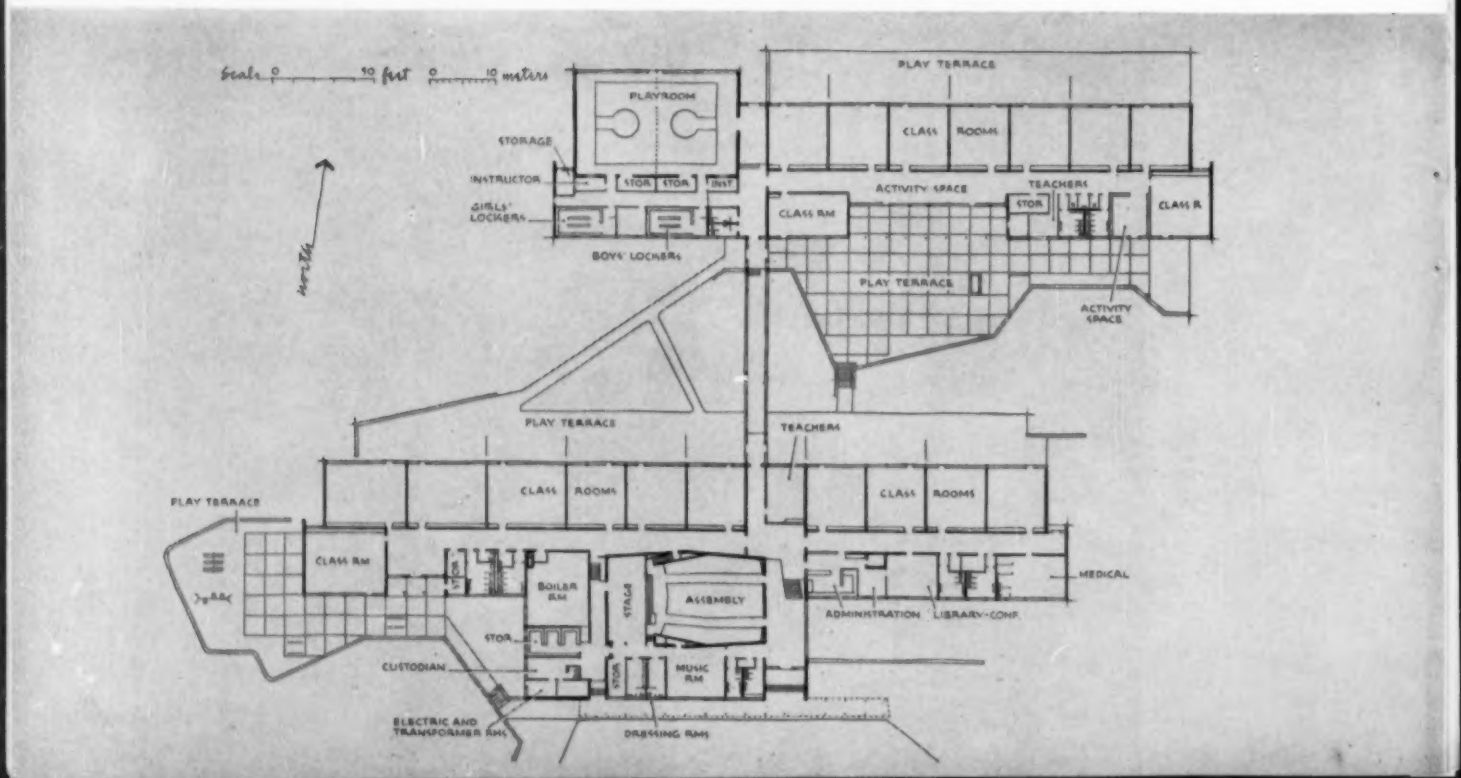


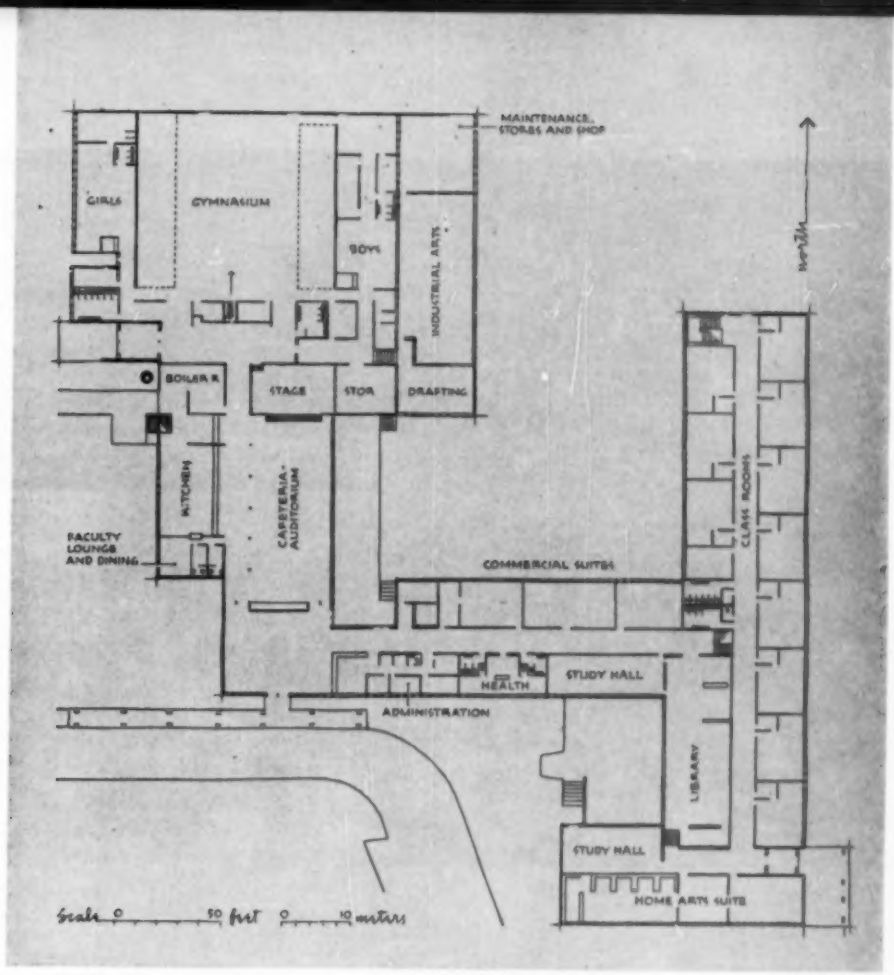
award citation. Elementary School Building, Madeira, Ohio: A. M. Kinney, Inc.; Charles Burchard, Director of Architecture. The building is well organized in four elements—kindergarten; first through third grades; fourth through sixth grades; and the all-purpose room, which serves as meeting place, play house, and physical education space. Each group of students has its separate playground, the largest being used in the evenings as a parking lot.



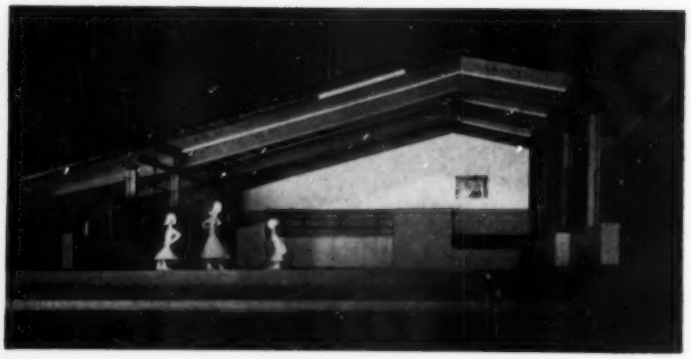
award citation. The Country School (elementary), Weston, Massachusetts: Hugh Stubbins Associates, Architects; LeRoy M. Hersum, Consulting Engineer; R. G. Vanderweil, Mechanical-Electrical Engineer; Chambers & Morrice, Landscape Architects. Adapted to an irregular site, this school is made up of two classroom buildings connected by a covered walk, following the contours in such a way as to capitalize upon the beauty of the site, as well as save costly excavation. Classrooms are oriented to the north, skylighted to gain added light.

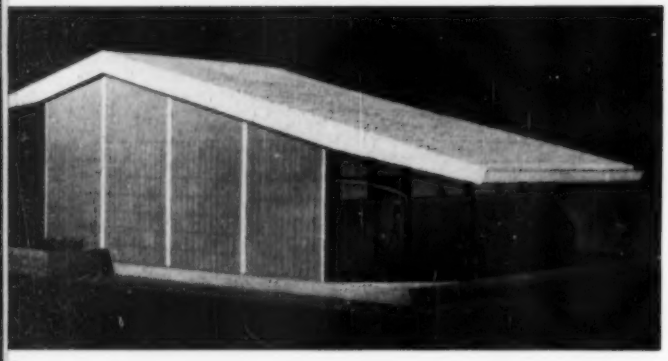




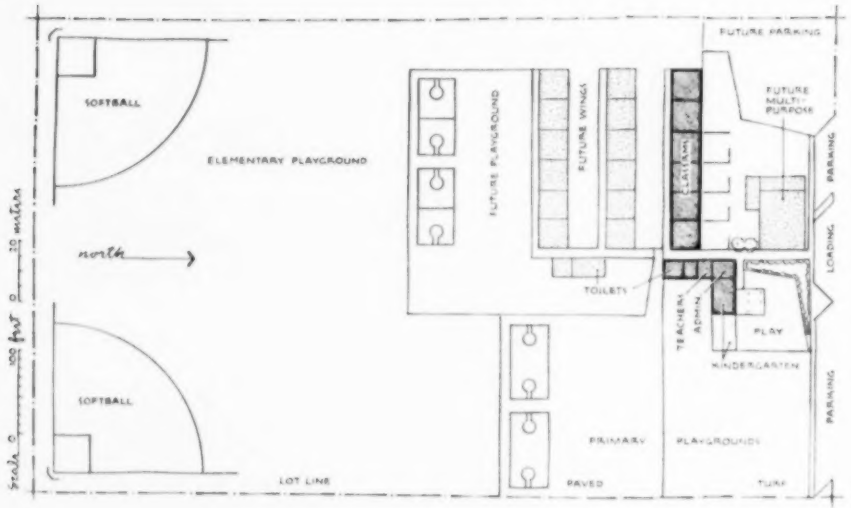


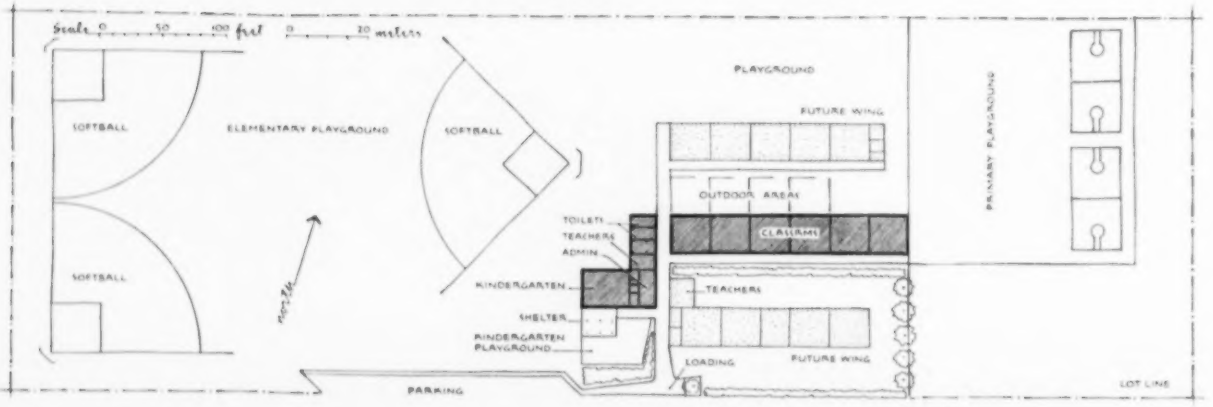
award citation. Brookfield Union Free High School, District #1, Towns of Brookfield and New Berlin, Wisconsin: Grassold-Johnson & Associates and Perkins & Will, Architects-Engineers. Since the site slopes down to the north the northeast classroom wing has two stories, and the gymnasium becomes well related in scale to the rest of the building. The library, at the junction of the two main classroom wings, is on a split level, equally accessible to both. Classroom orientation is mainly east and west.



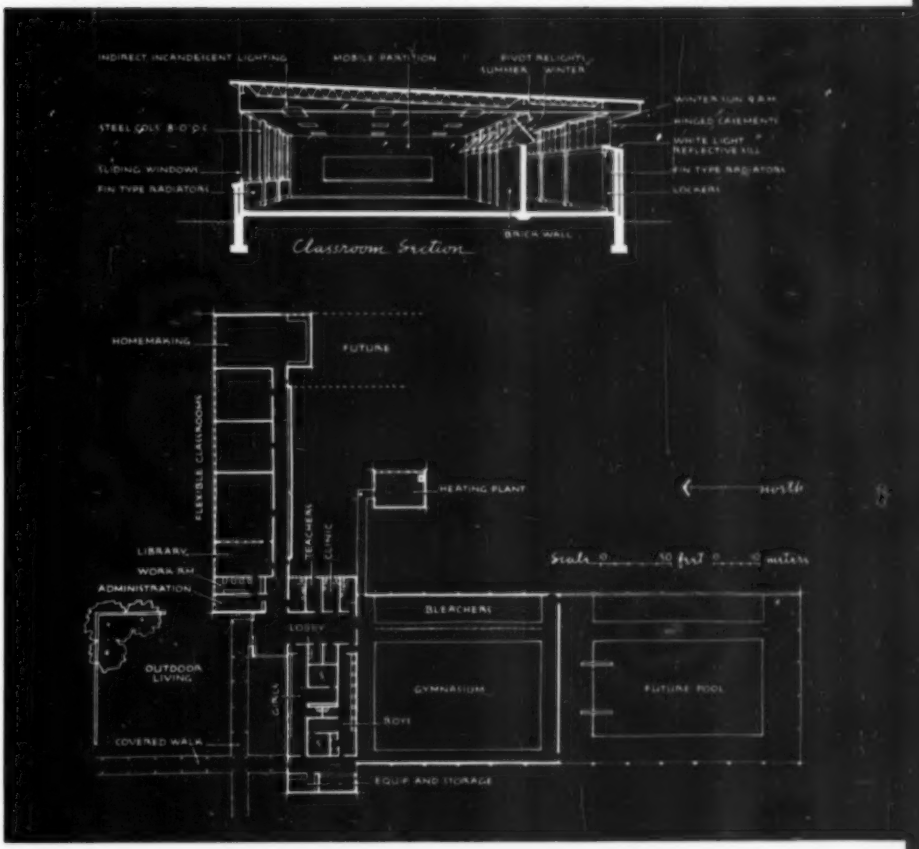


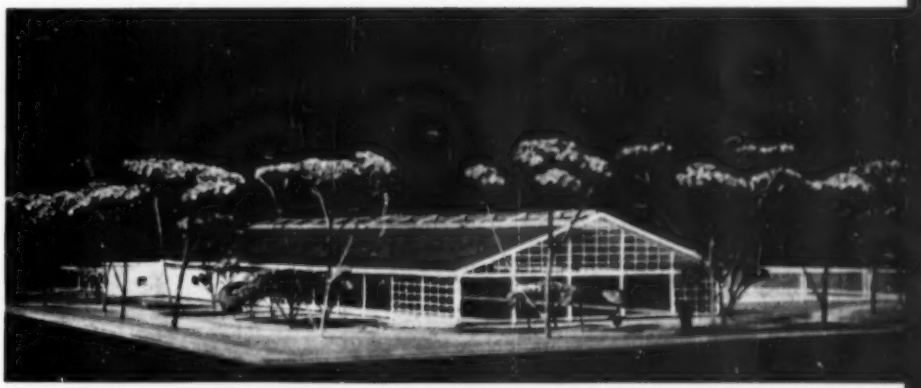
award citation. Elementary School, Napa Elementary School District, Napa, California: William Corlett, Architect; Peter H. Skaer, Associate Architect; John M. Sardis, Structural Engineer; James Gayner, Mechanical Engineer. The program was to design two schools identical in program but opposite in orientation. The solution hinges on the development of the typical classroom section and its adaptability to north or south orientation. In both schools the low, wide overhang faces south.

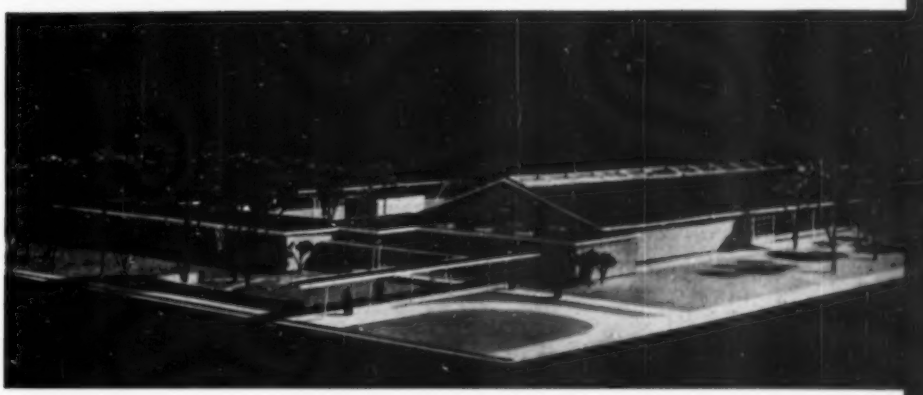




award citation. New High School, Coulee City School District 150-204, Coulee City, Washington: Kenneth W. Brooks, Architect; Kenneth P. Norrie & Associates, Structural Engineers; Kendall M. Wood, Mechanical Engineer; Joseph M. Doyle, Electrical Engineer; Lucy McCormack, Homemaking Department Consultant. The classroom wing presents an interesting study in fenestration. Although the corridor is enclosed on the southeast side, the exterior casement windows and the continuous transom in the interior wall are designed to bring reflected light and deflected breeze into the classrooms (*section top right*). Well-shaded high windows and heat-reducing, light-diffusing glass in the skylight of the gymnasium will keep it well lighted and fresh. No cars will be parked in front of the school because it will be the "vista point of Main Street."







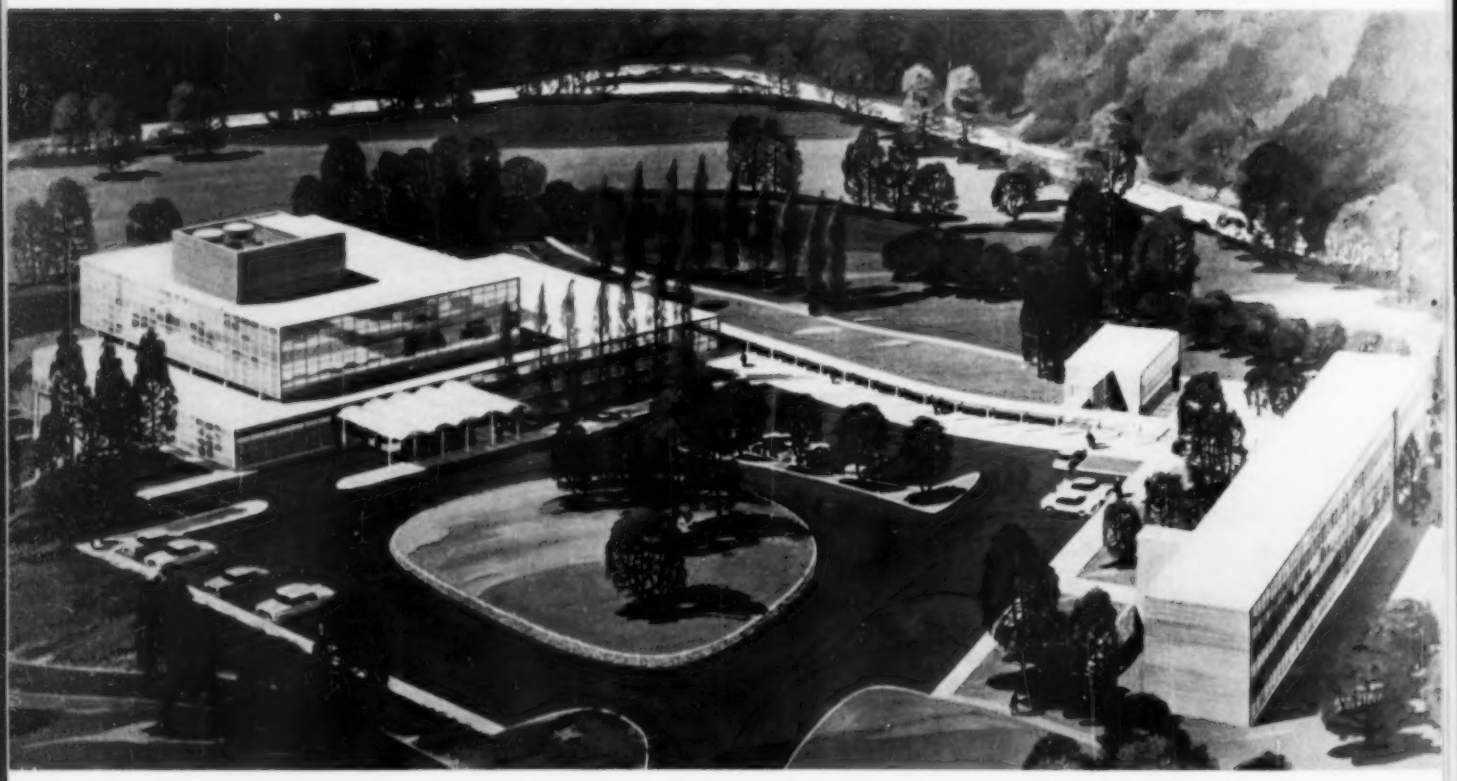
health

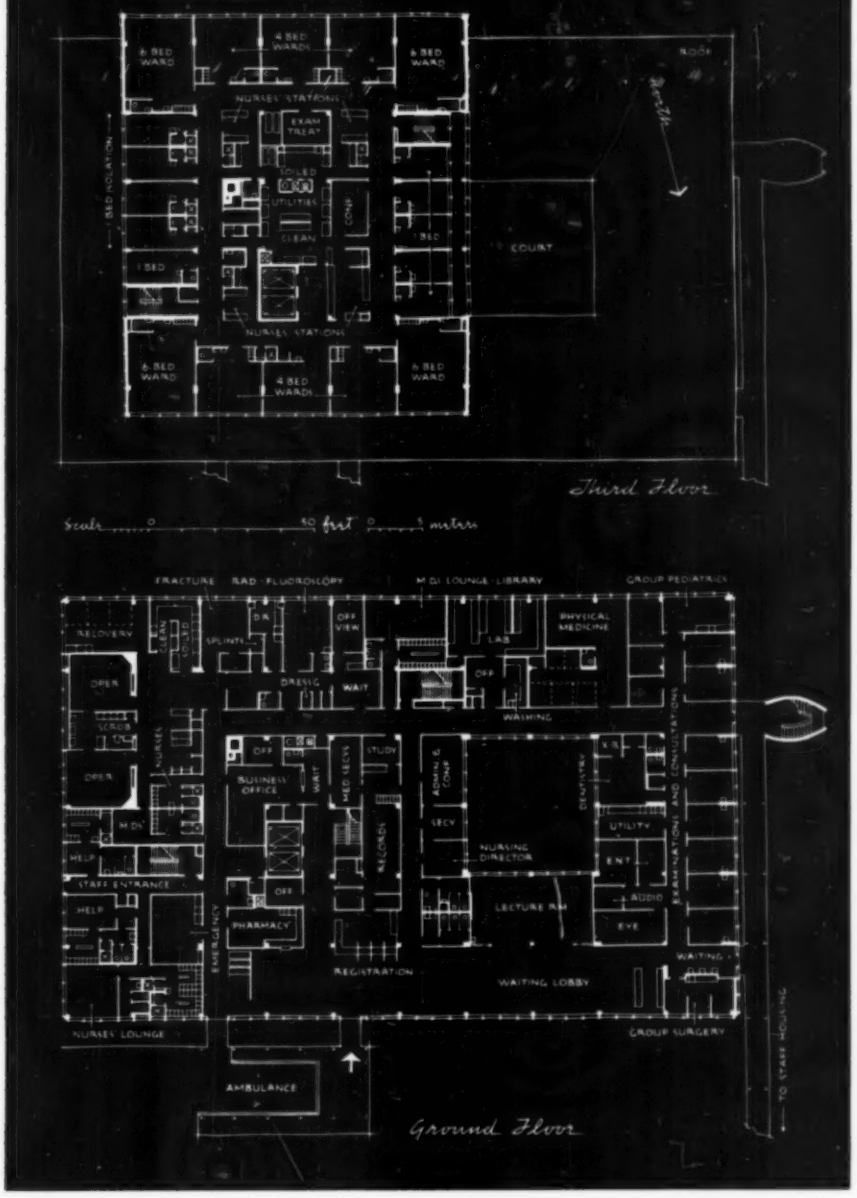
This magazine has commented several times recently on the evident falling-off in hospital planning and construction. Results of the Business Survey substantiate this drop; Health structures have dropped to 6 percent of the dollar-volume average on the architects' boards. (When P/A began its Business Surveys, in January, 1951, this category was 17 percent of the reported volume.) It was to be expected, then, that not many hospitals would be submitted in this Awards Judgment. Of those that were considered, the Whitesburg Memorial Hospital *(below)* designed by Sherlock, Smith & Adams as one of five which they are doing in a program for the United Mine Workers, struck the fancy of the Jury most. Its plan, around a central service core, its use of carefully studied materials and construction methods, and its good siting all brought it to the top.

This evidence of regional planning on the part of a private group (the hospitals in the U.M.W. program, by a number of architects, will be strung across the hills of Kentucky and West Virginia) seemed indicative of a trend that is important. Skidmore, Owings & Merrill's North Country Hospitals for the St. Lawrence Region of New York (November 1953 P/A), the Permanente group in California, and others, indicate that the lessons taught so effectively a few years ago in the Hill-Burton program—that hospital planning must be co-ordinated, in a local, a state, a regional and a national sense—has been understood and is being applied by nongovernment agencies.

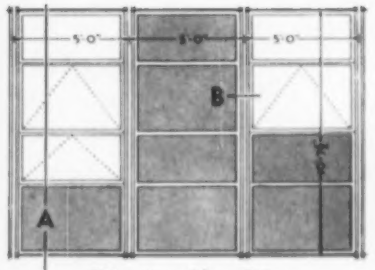
The other trend in planning for Health that was evidenced by the entries is the still-growing tendency for doctors to gather in "clinics" and pool some of the expensive plant and equipment costs, as well as their services to the community. Several such clinics received Award Citations and are illustrated in the pages that follow. The salient feature of this type of building is the use of terraces and patios, with offices, wards, and waiting rooms grouped around them.

award

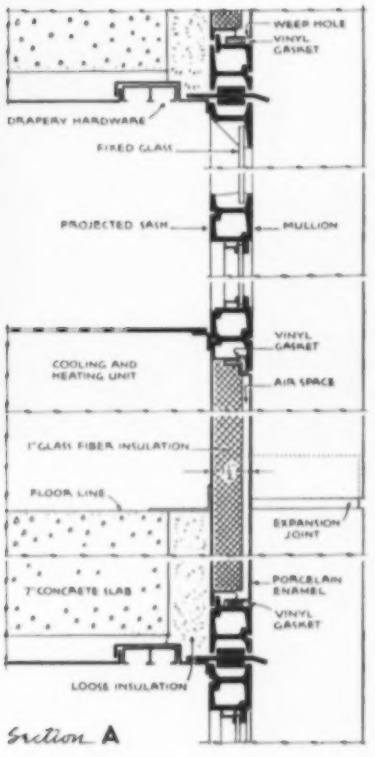




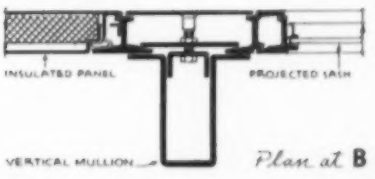
design award. Whitesburg Memorial Hospital, Whitesburg, Kentucky: Sherlock, Smith & Adams, Architects-Engineers; Richard J. Adams, Edward H. Noakes, Sidney N. Wellborn, Joseph L. Donofro, Charles M. Kelley, Eugene T. Millsap, John P. Shaffer, Jr., William H. Metcalf, Design Team; Lawrence Halprin, Landscape Architect. One structure in a program for the United Mine Workers, this hospital is also a supply terminal for the others. The basement contains supply rooms, the staff cafeteria, and rooms for staff members. On the ground floor are rooms for operating, consulting and examining, and emergency treatment. The wards are on the second and third floors and all face the outside through glass-curtain walls. The square plan places all patient rooms in easy contact with the central utility and service core. Structure is flat-slab concrete frame; wall panels are sandwich-insulated porcelain-enamel units.



Window Elevation



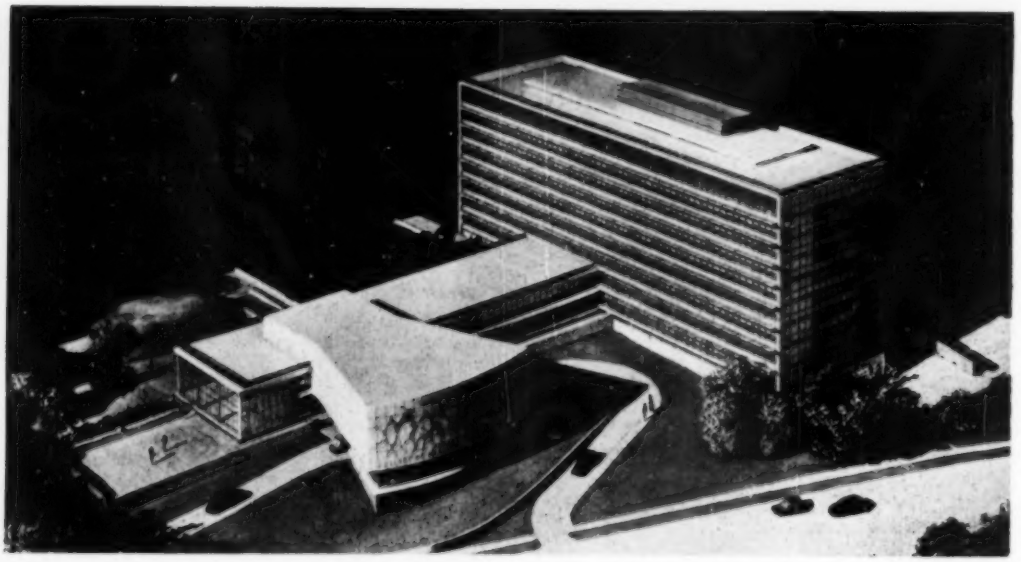
Section A

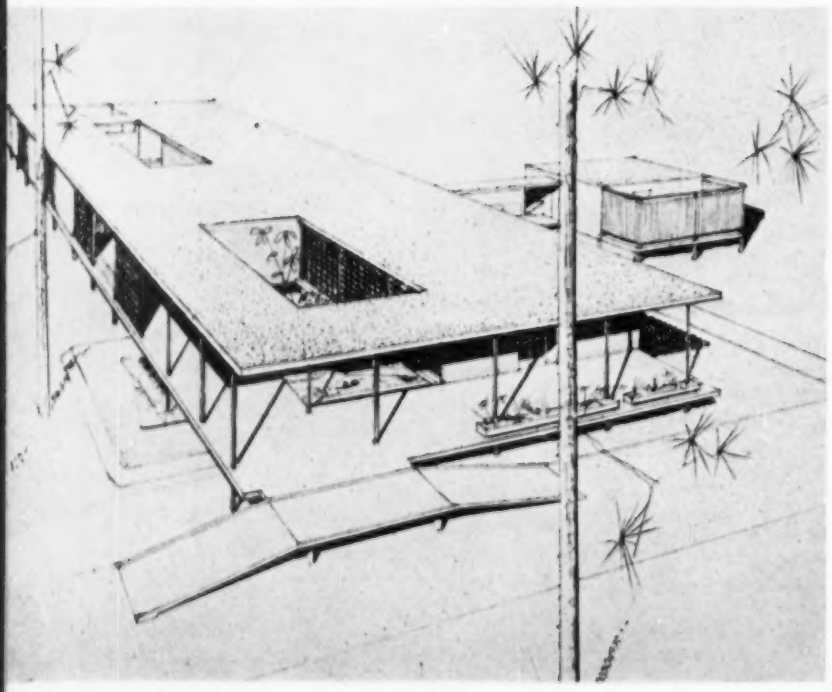


Plan at B

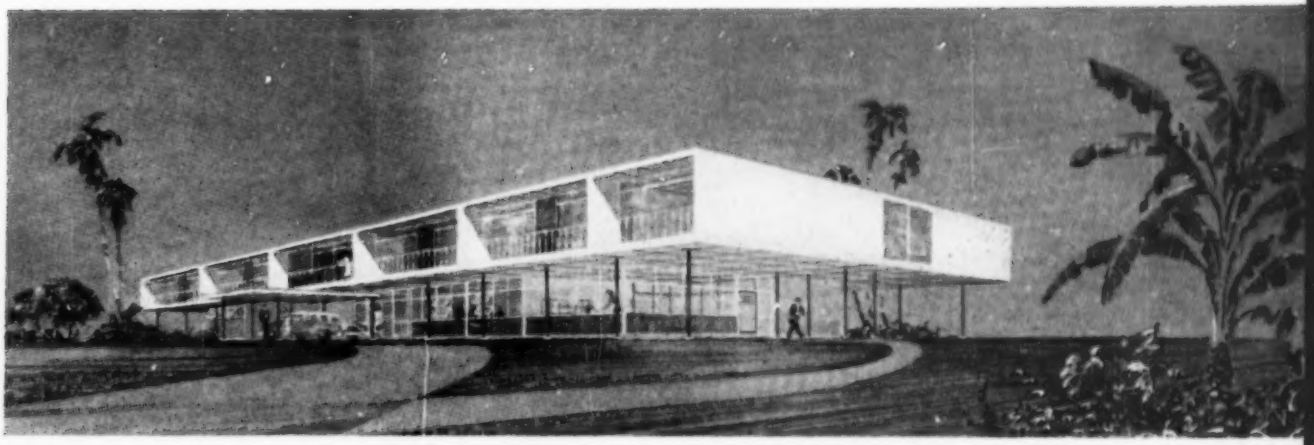
citations

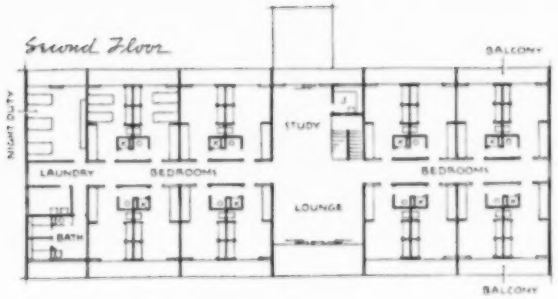
award citation. Albert Einstein College of Medicine, Yeshiva University, Bronx, New York: Kelly & Gruzen, Architects; Joseph A. Cashdan, Associate in Charge; Jaros, Baum & Bolles, Mechanical Engineers; Strobel & Salzman, Structural Engineers. This is the initial unit of a comprehensive $25-millions medical teaching center to be constructed in New York. *(See also November 1953 P/A.)*

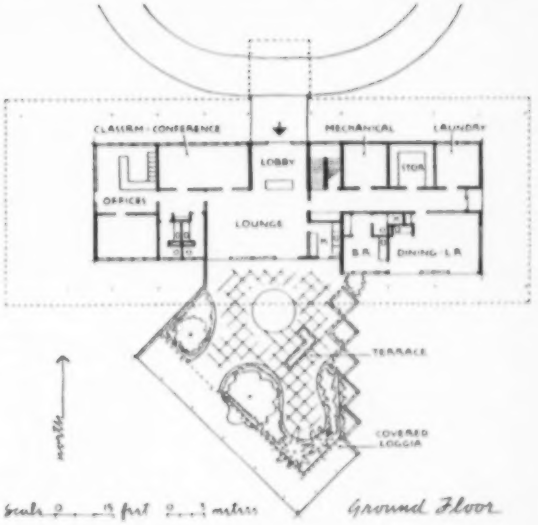




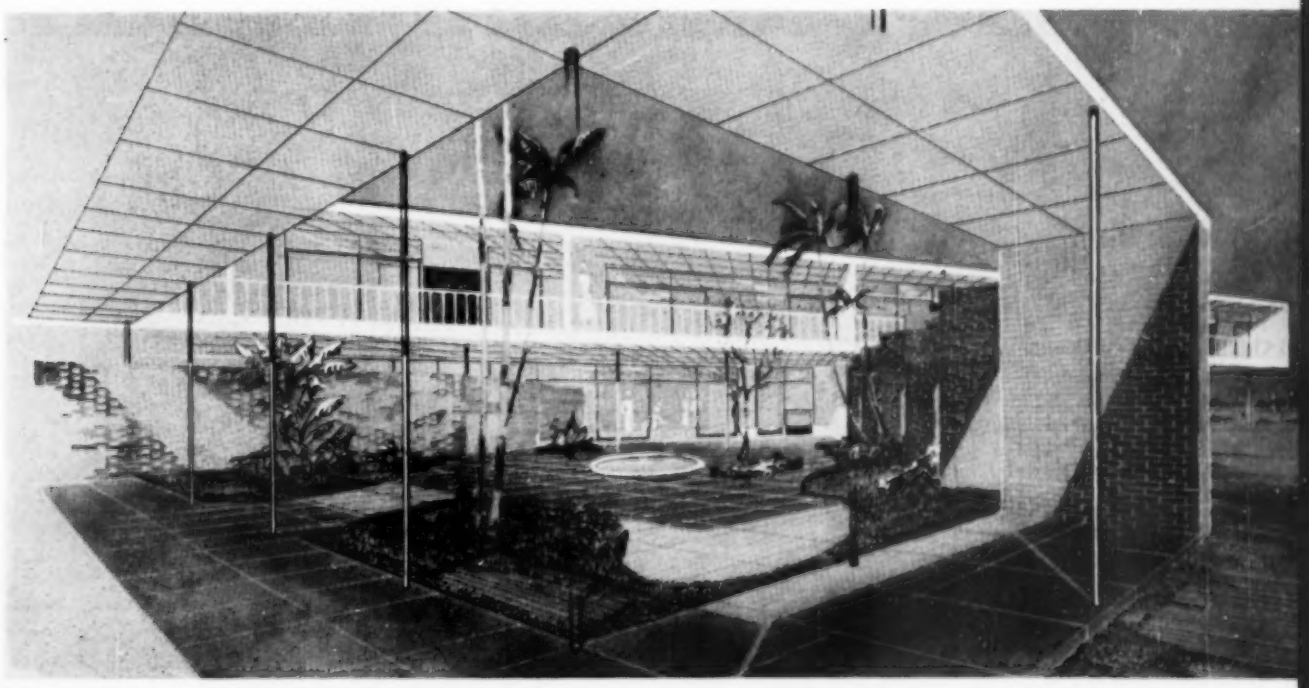
award citation. Sako Clinic for Children, Raceland, Louisiana: Curtis & Davis, Architects-Engineers; Cary B. Gamble & Associates, Consulting Engineers (Mechanical and Air Conditioning); Edward Lee Moroney, Consulting Electrical Engineer. Located in Louisiana lowlands, in a region subject to hurricanes and floods, this building was designed with climatic conditions much in mind. The structure is steel frame with precast prestressed-concrete units forming the floor and roof.



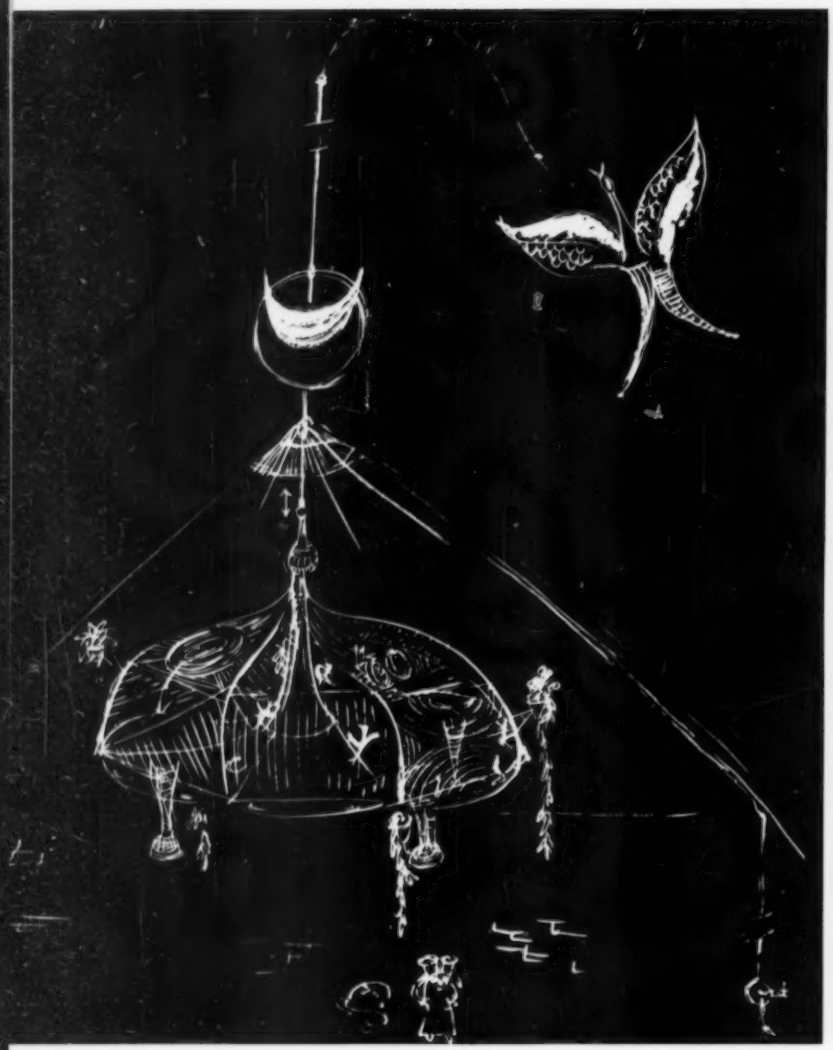


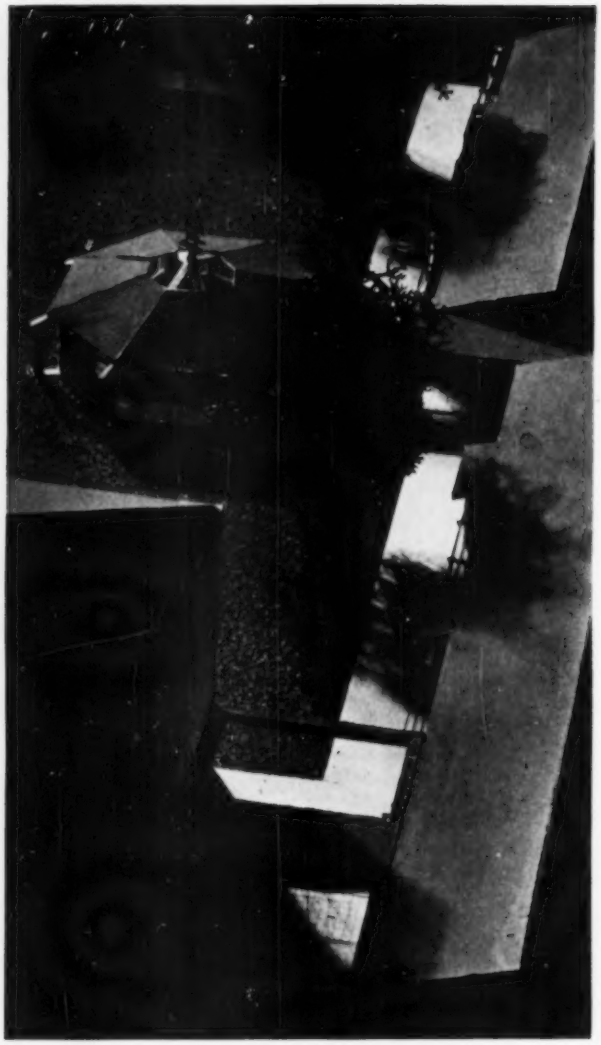


award citation. Brooking Memorial Nurses' Home, Gulf Coast Medical Foundation, Wharton, Texas: Fehr & Granger, Architects; Blum & Guerrero, Mechanical Engineers; Wilson & Cottingham, Structural Engineers. This is the first of several buildings to be built by the Gulf Coast Medical Foundation as a supplement to neighboring health facilities. The living quarters in this dormitory are located on the second floor to catch the prevailing Gulf breeze; the housemother's apartment and a large social room occupy the lower floor.

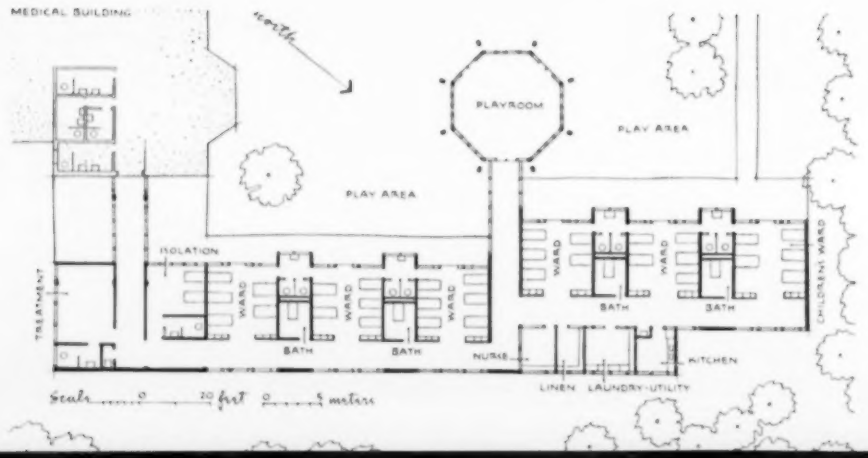


award citation. Children's Ward, Georgia Warm Springs Foundation, Warm Springs, Georgia: Toombs & Company, Architects; Elbert Weinberg, Sculptor; I. E. Morris & Associates, Structural Engineers; Newcomb & Boyd, Mechanical Engineers.

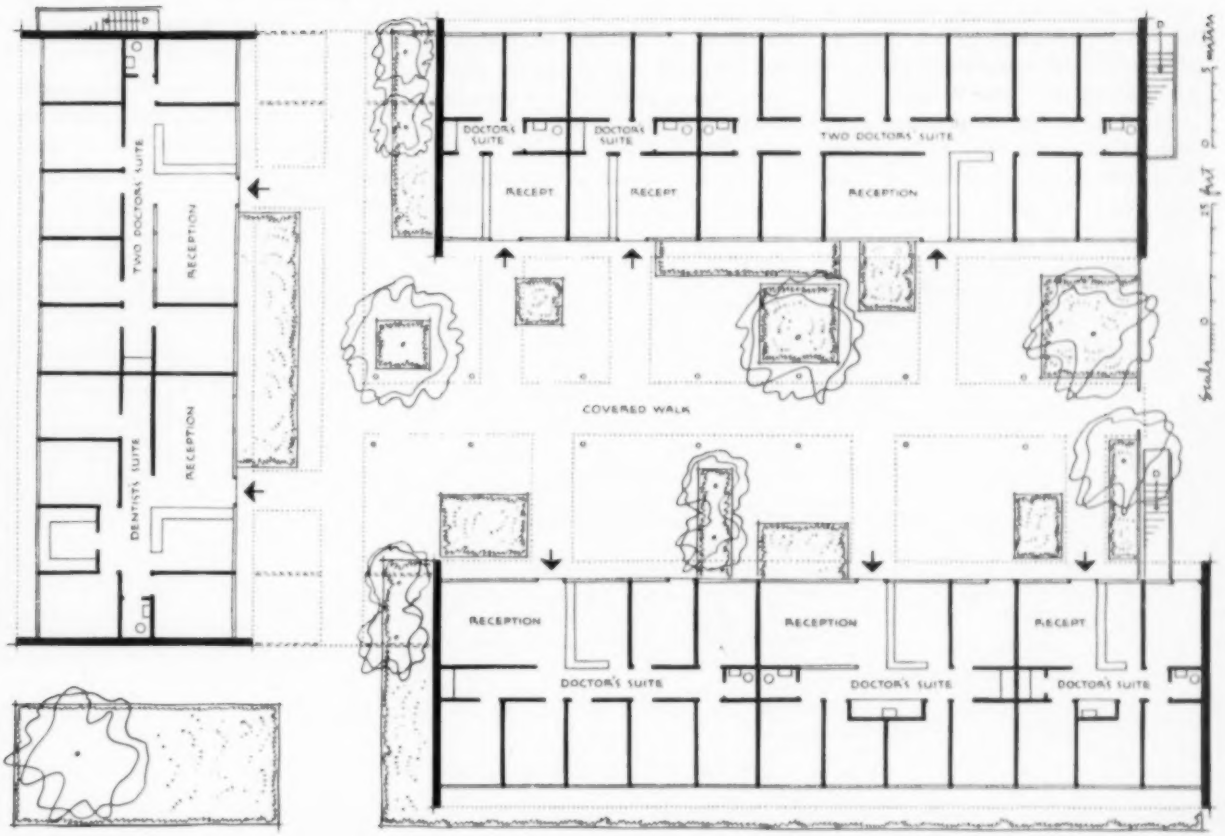




From the wards the children may roll their wheelchairs out onto the terrace in good weather. At other times they may gather in the octagonal playroom, which was designed for cheer and gaiety. The sculpture beneath the adjustable bird cage was meant to be handled by the children.



award citation. Doctor's Medical Center, Bellevue, Washington: Paul Hayden Kirk, Architect. Three small buildings are grouped around a central plaza and connected by covered walks. With frame construction and wood joists, the offices are laid out on an eight-ft module, making the use of cement-asbestos siding panels simple and economical.



industry

Fewer entries were submitted in the Industrial category than in others, but of the entrants the Jury found three worthy of Citation—an indication, perhaps, of the level of design excellence in industrial work today. Although the flush of defense industrial activity, stimulated by tax benefits, has begun to fade, this type of work will still constitute 15 percent of the architectural volume this year.

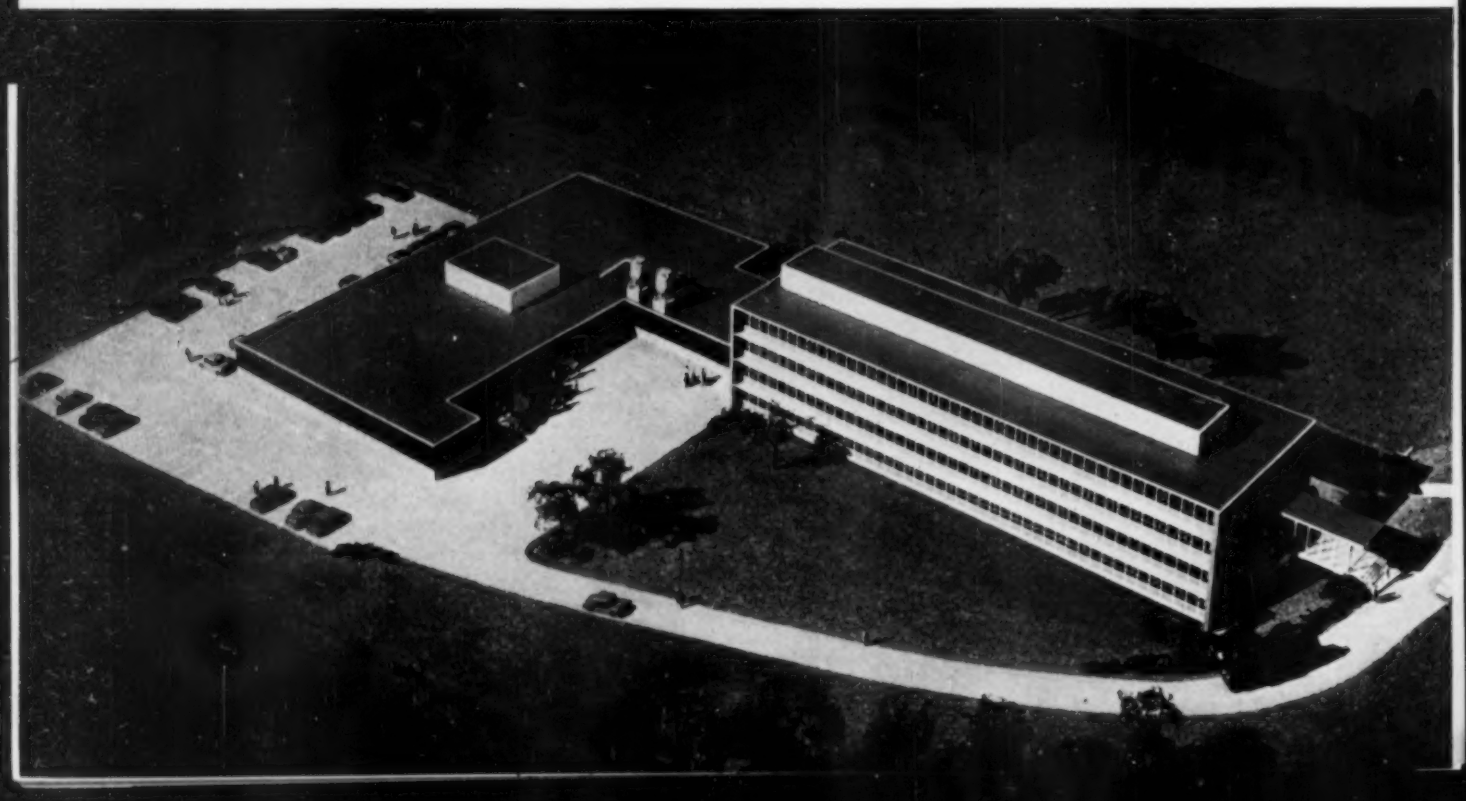
As a building type, the industrial structure seemed to the Jury to be moving away from the solid enclosures of years past, and to be finding a design expression that is not only more human but more attractive. Even the buildings of the Tennessee Valley Authority—for over 20 years a salutary if somewhat formal influence on the design of industrial structures—are now pointing the way in more freedom of plastic expression and more open of planning.

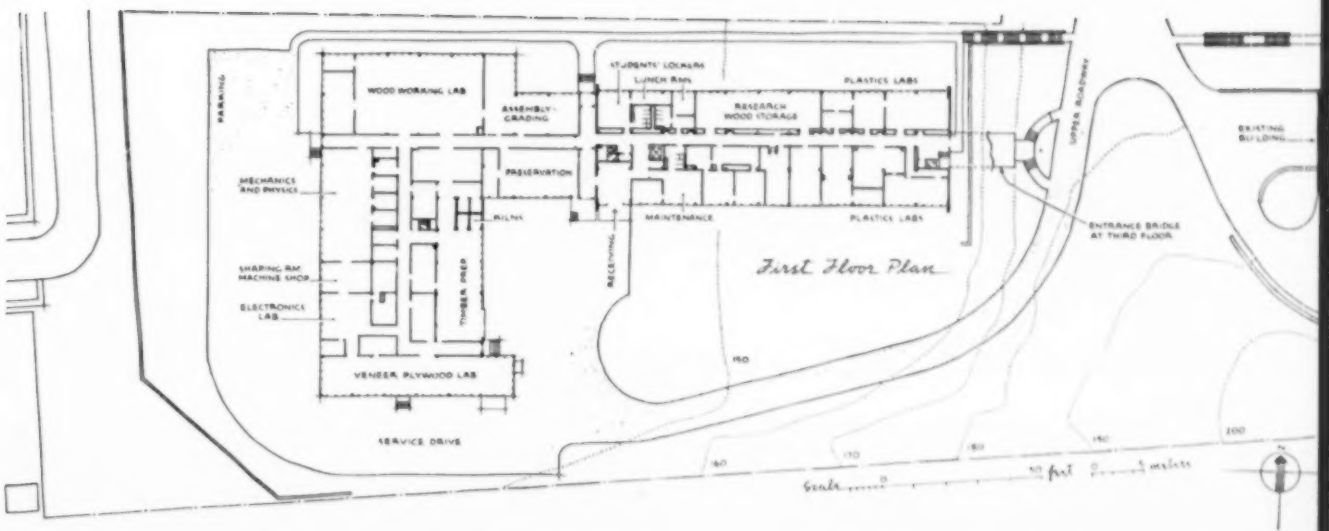
There still remains the temptation, apparently, to use billboard façades or monstrous signs on some types of industrial buildings—even though few of them depend upon passers-by for trade, and most of them might create more local good will by design restraint. It is in the category of design for industry in its research phases that most advance and most maturity seem apparent. This type of "light industrial" building, which many cities are rezoning residential neighborhoods to accommodate, can be a structure of which any community might be proud. Such buildings are the Awardwinning Forest Products Research Laboratory of Reisner & Urbahn and the Office and Laboratory Building for American Home Products designed by Skidmore, Owings & Merrill.

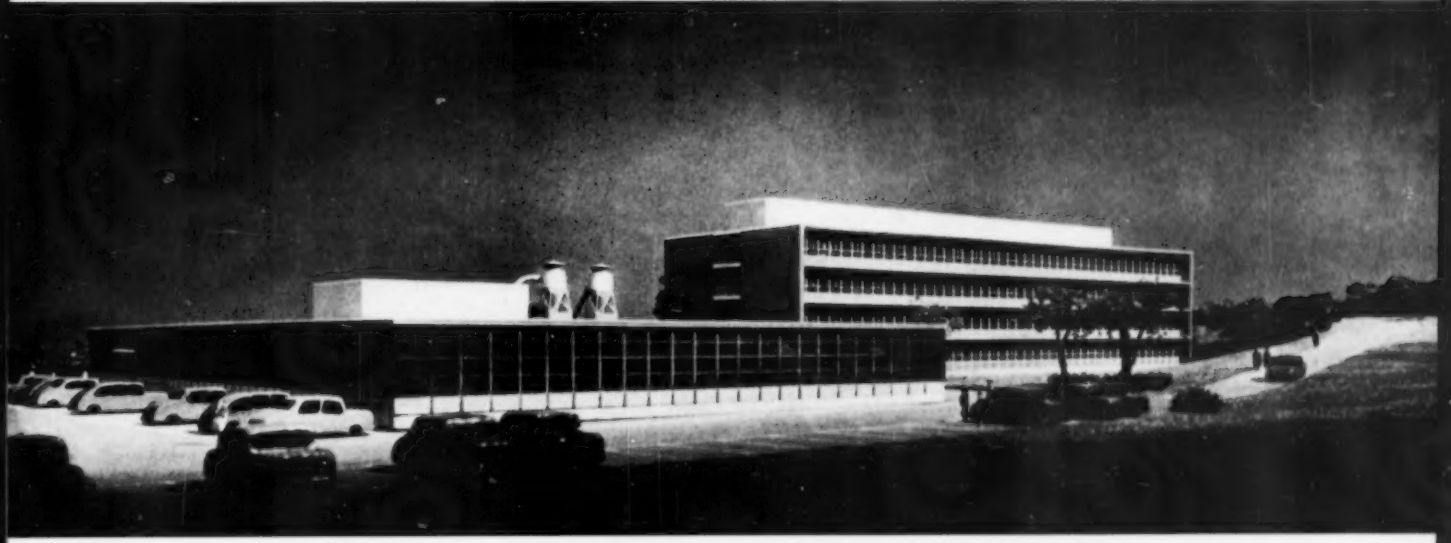
In all of the buildings cited, one general characteristic was noted by the Jury: no attempt was made in any industrial project to house all functions within one enormous, impressive building. The trend is manifestly toward dispersion of elements, recognizing the different requirements of different functions.

award

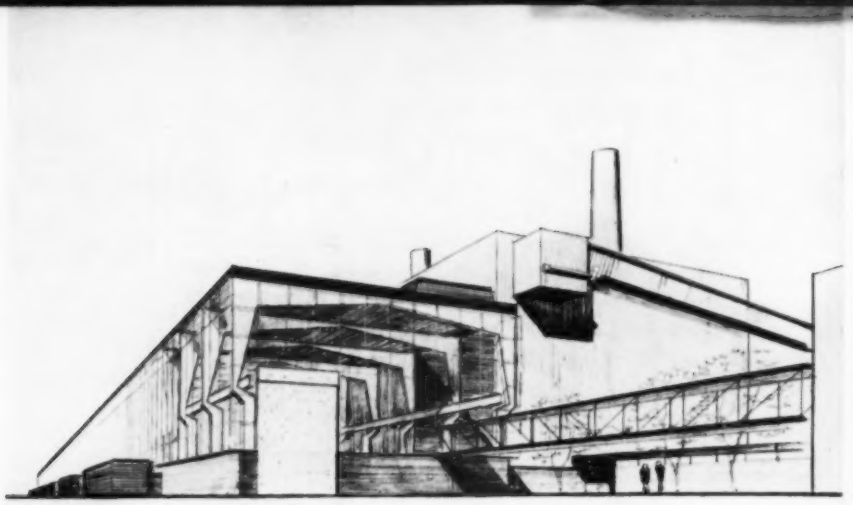
design award. Wood Products Laboratory Building #12, State University of New York, New York State College of Forestry, Syracuse University, Syracuse, New York: Reisner & Urbahn, Architects; approved by Department of Public Works, Division of Construction—Bertram D. Tallamy, Superintendent; Cornelius J. White, State Architect; Otto J. Teegen, State University Architect. On a site adjacent to the campus of Syracuse University, this building was designed as a classroom laboratory for studying all phases of the use of wood and its by-products. Since the ground level of this building will be 24 ft below that of the nearest building on the campus, it was decided to bring students into the laboratory through a bridge at the third floor, which means that no classroom will be more than two floors up or down from the entrance level.

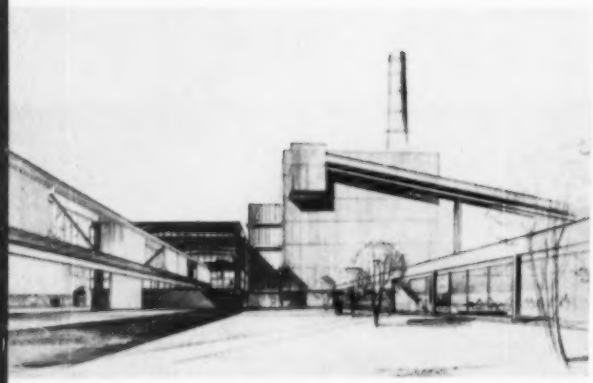






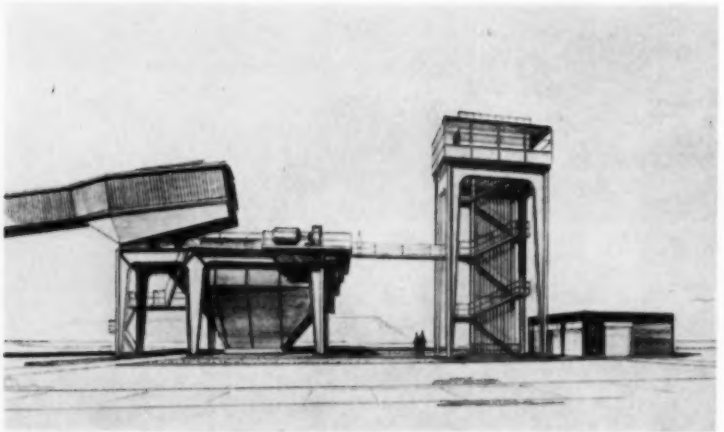
The one-story wing was designed to contain the heavy machinery, which requires special footings for vibration, and to handle the large material deliveries.

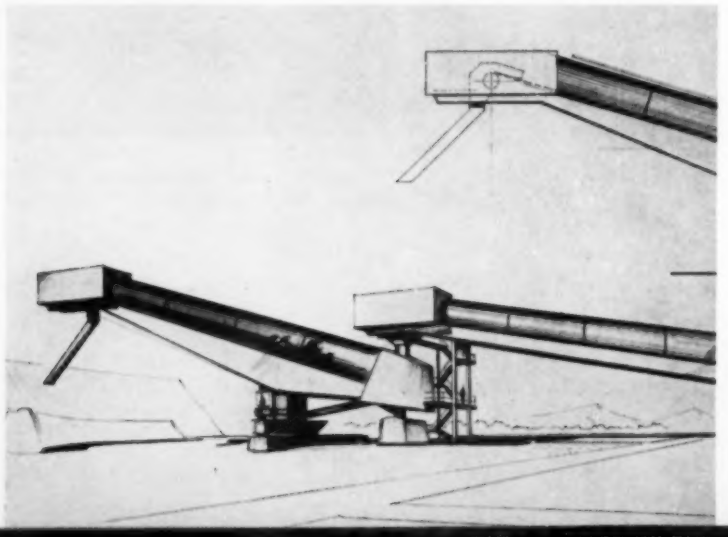


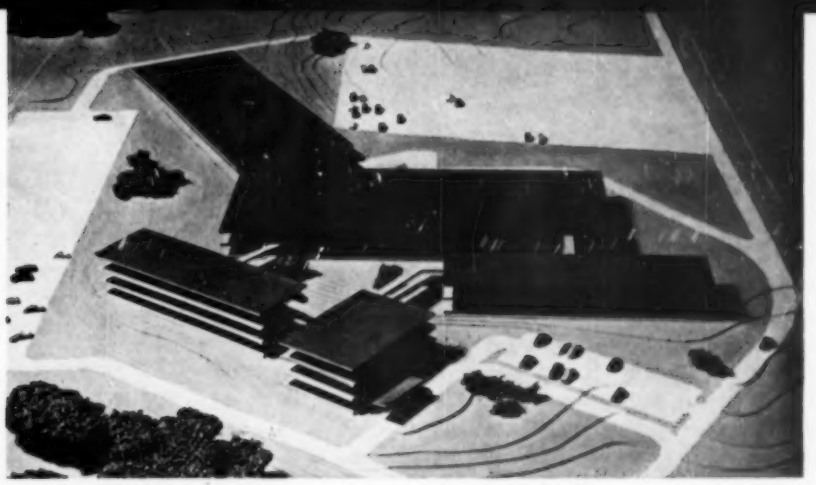


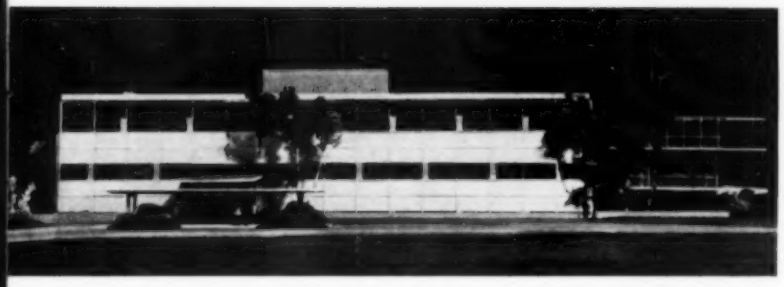
award citation. Gallatin Steam Plant, Cumberland River, 30 miles east of Nashville, Tennessee: Harry B. Tour, Head Architect, Tennessee Valley Authority, Division of Design. "Much cleaner than most industrial buildings," according to the Jury, this steam plant carries on the tradition of unusually excellent design by the Tennessee Valley Authority Architects.

citations



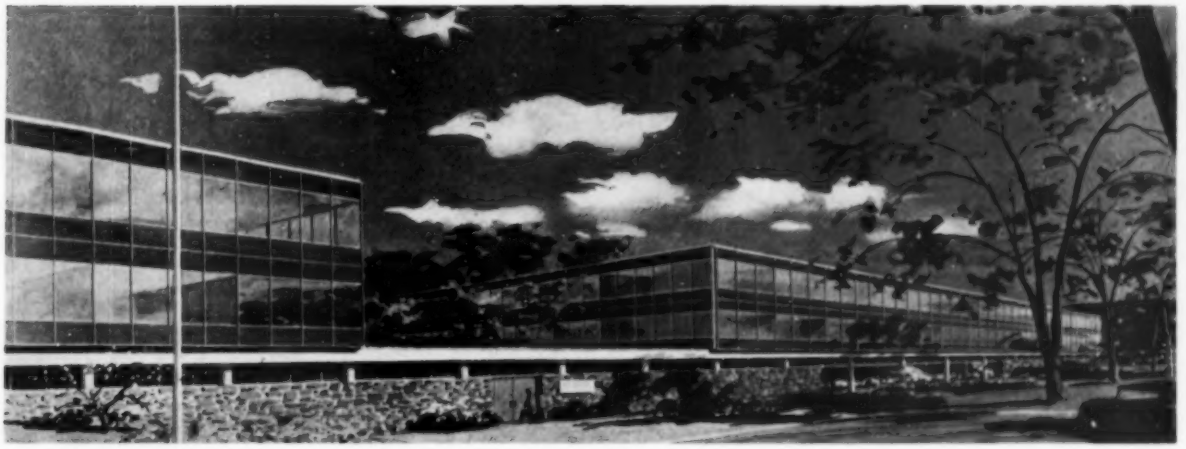


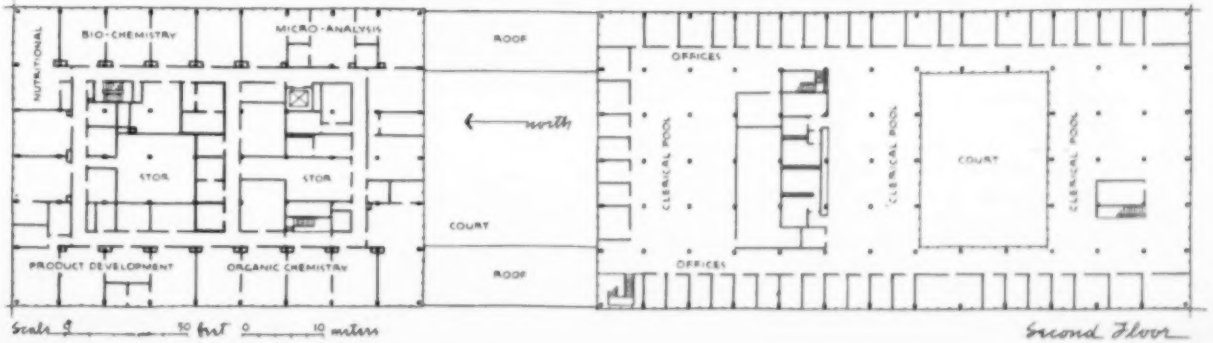




award citation. Cherry Hill Project, Radio Corporation of America, RCA Victor Division, Camden, New Jersey: Vincent G. Kling, Architect; I. M. Pei, Architect, Design Consultant; Louis T. Klauder & Associates, Robert J. Sigel, Mechanical Engineers; Joseph C. Tighe, Project Manager; Severud, Elstad & Krueger, Structural Engineers. The five buildings comprise approximately 300,000 sq ft and are interconnected by covered and enclosed passages. The porcelain-panel and glass walls are set in stainless-steel frames, hung from the lift-slabs.

award citation. Office & Laboratory Building, American Home Products Corporation, Wyeth Laboratories Division, Radnor, Pennsylvania: Skidmore, Owings & Merrill, Architects; Seelye, Stevenson, Value & Knecht, Engineers. Above the ground floor, this project consists of two separate buildings of two stories each. One of the major factors in determining this design was the desire to give every office and employe the maximum amount of light, an objective gained by the use of a wall "skin" consisting of glare-reducing glass and enameled-metal panels.





public use

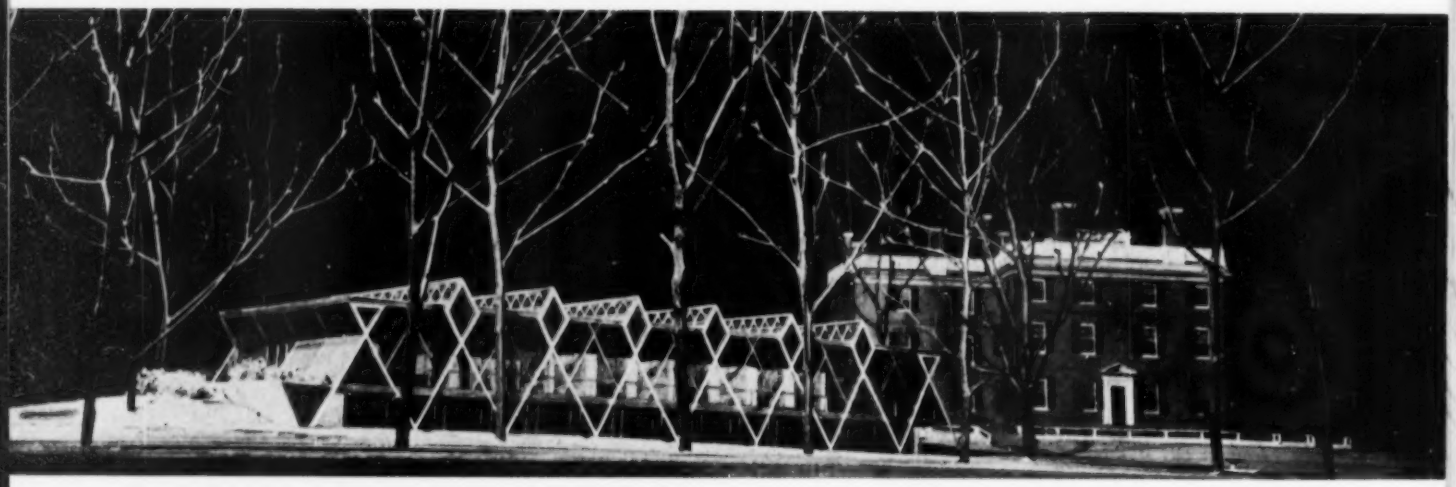
In the design of buildings for Public Use, the architect is usually dealing with a conservative, often a bureaucratic, client; and advance in this field—save for some outstanding examples in recent years—has been slow. In libraries the progress has been most marked, and in this Award Judgment we saw many good ones. This year, however, the local (county, district, or city) administration building has become a frequent design problem (Public Use structures will attract 7 percent of the dollar-volume activity of architects across the nation during the year); and several buildings of this type, from among the many submitted, rose to the point of receiving Award Citations.

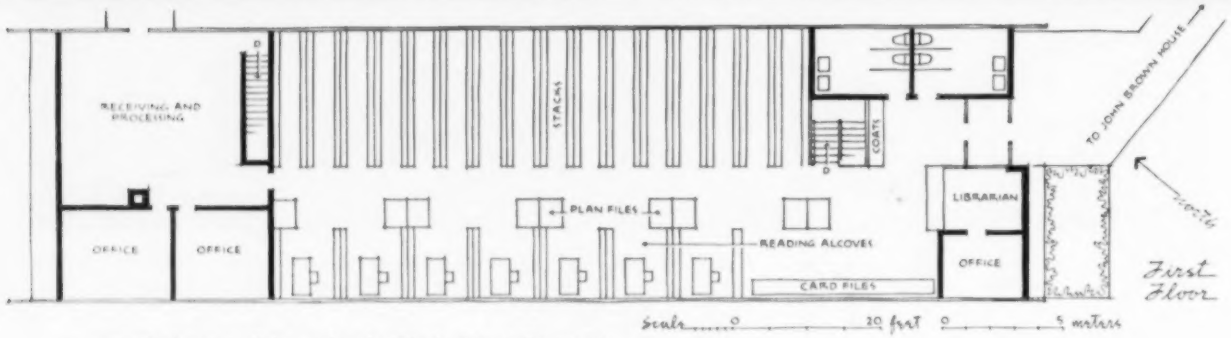
The most exciting structural scheme in this category is the use of an enormous cantilever to support the convertible roof of the Civic Auditorium for the Lower Hill Cultural Center at Pittsburgh, designed by Mitchell & Ritchey. Its purpose is to provide shelter from the weather when needed; otherwise the amphitheater remains open to the sun and stars. Never before has this been done on such a grand scale.

The unusual structure of the Rhode Island Historical Society Library, designed by Cull & Robinson and Conrad Green, gives rise to some interesting speculation. Here is a thoroughly modern structure which is to house an organization of historians. The paradox vanishes, however, when you think that perhaps this building will make Rhode Island history just as the existing building has done.

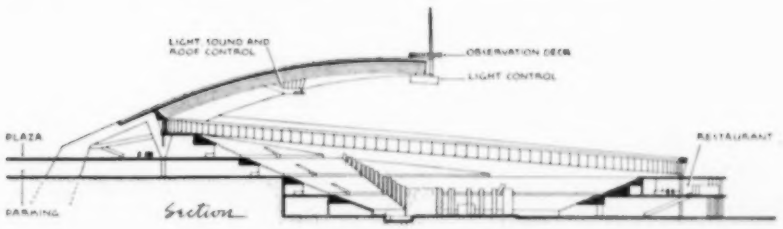
As in the case of other building types, no "style" seemed apparent in these designs. Rather there was a concentration on the business of solving the problem, with a high degree of planning skill and structural imagination. The problem of monumentality seemed to take care of itself, when the program was well translated.

citations

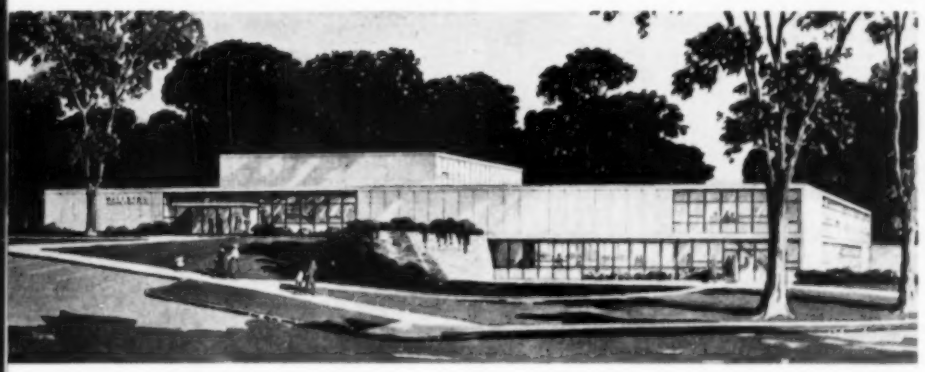




award citation. Library for the Rhode Island Historical Society, Providence, Rhode Island: Cull & Robinson and Conrad E. Green, Associated Architects-Engineers. The Jury took particular delight in the unusual structure of this design, especially as it appears against the background of the old brick residence which houses the Society. Triangular skylight trusses, carried by diagonally-sloping steel columns, support a metal roof deck.

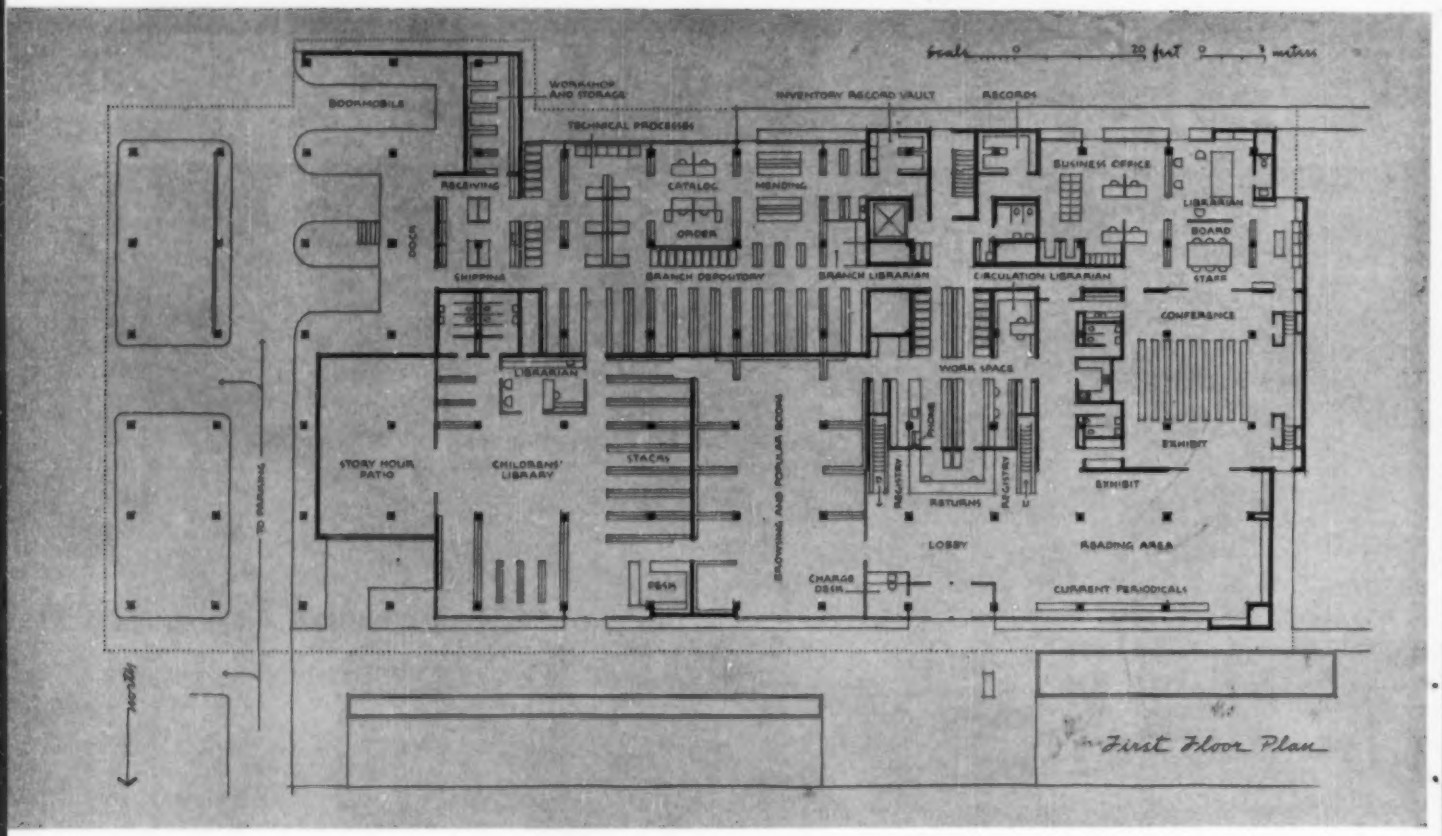


award citation. Civic Auditorium, Lower Hill Cultural Center, Urban Redevelopment Area #3, Pittsburgh, Pennsylvania: Mitchell & Ritchey, Executive Architects; Ammann & Whitney, Consulting Engineers. The Jury liked the concept of the single cantilevered arm, designed to support the convertible umbrella covering the auditorium—though some Jurors felt that a series of ribs might have been lighter looking, if less impressive. Relation of the auditorium to the entire redevelopment area was commended.

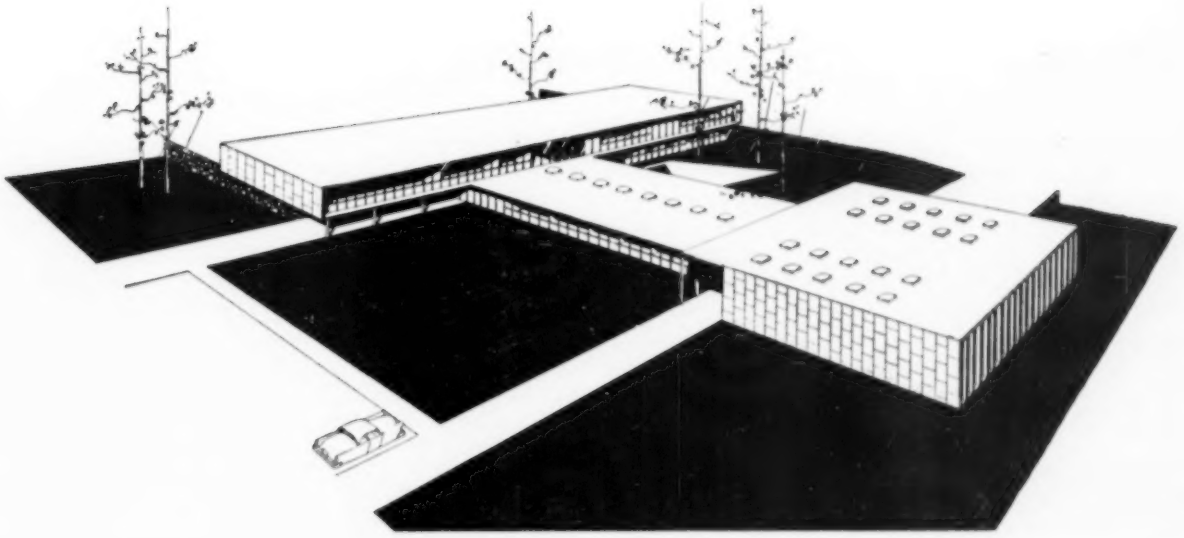


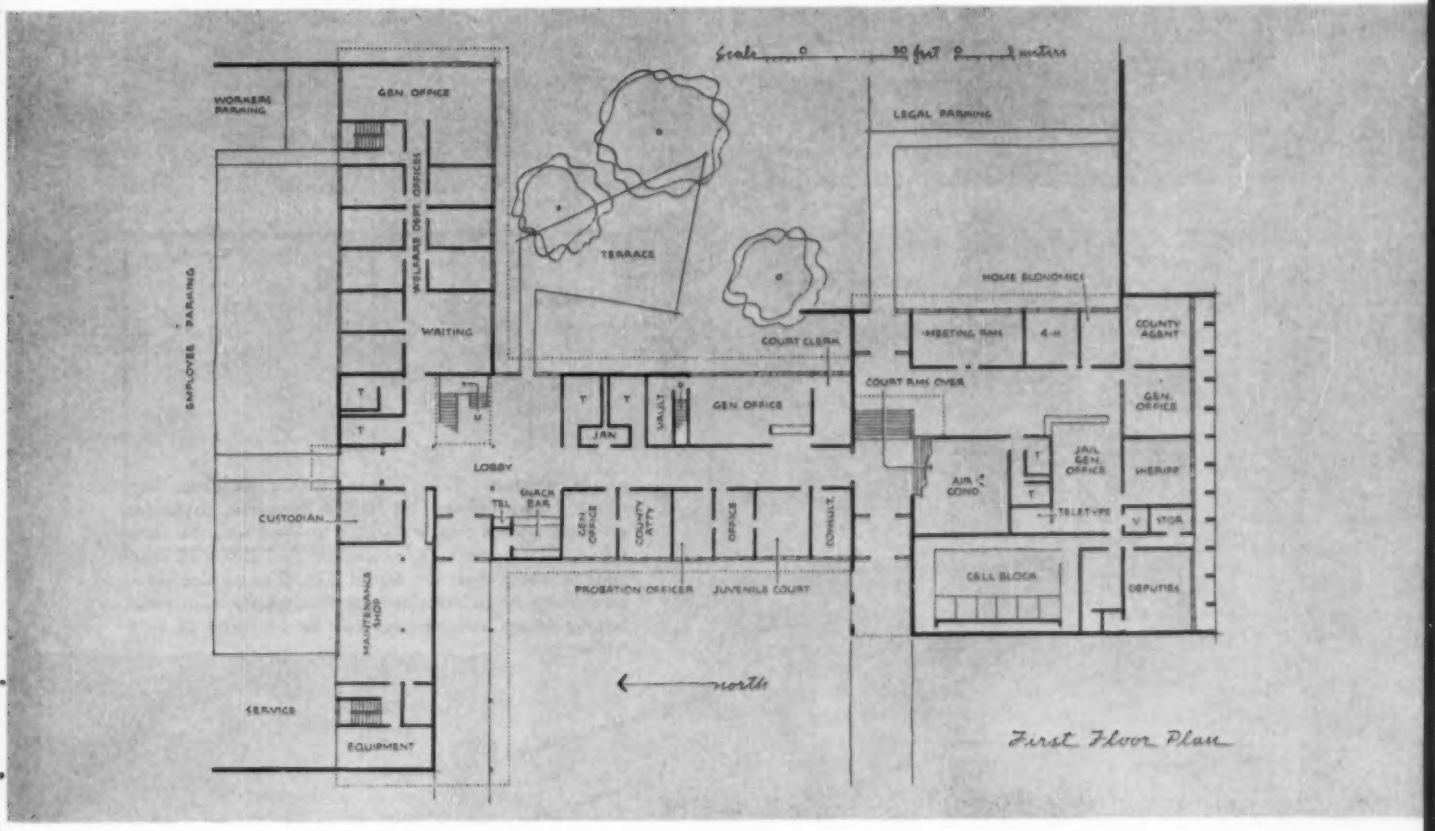
award citation. Civic Center, Hillside, New Jersey: Emil A. Schmidlin, Architect; James E. Bryan, Library Consultant. A straightforward structure of fireproofed steel, this unpretentious building is designed to house all of the community offices, including the police station and the library.

public use

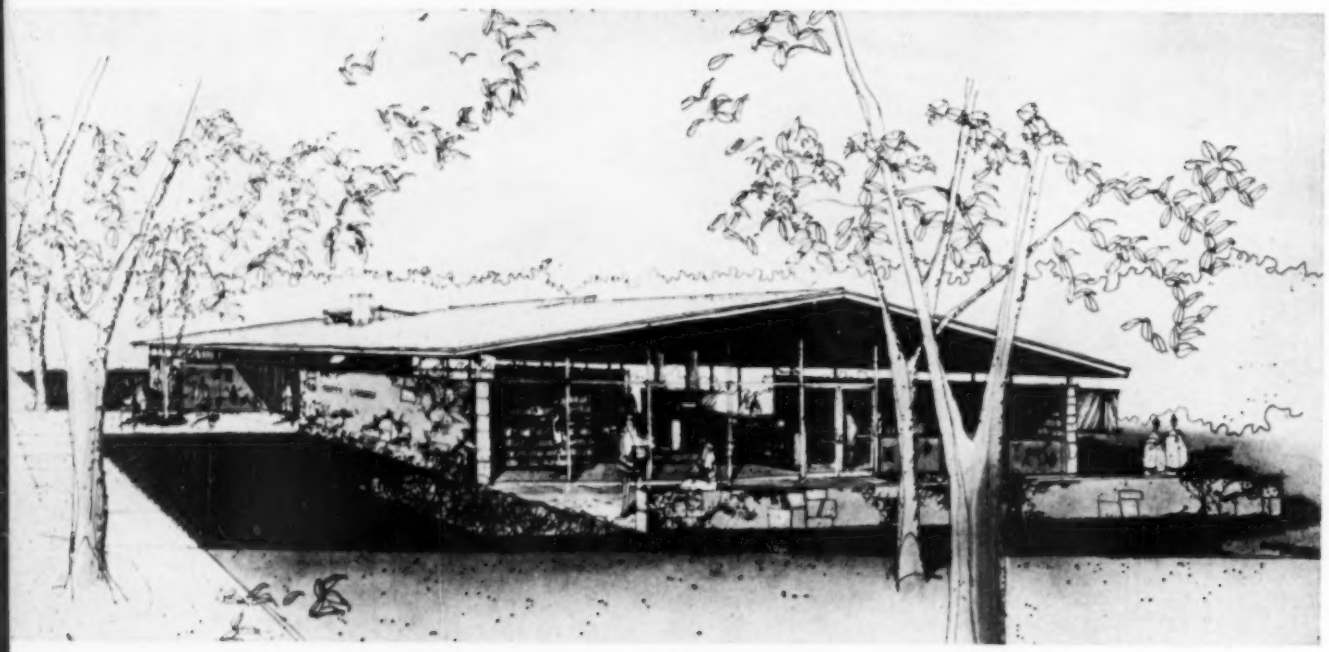


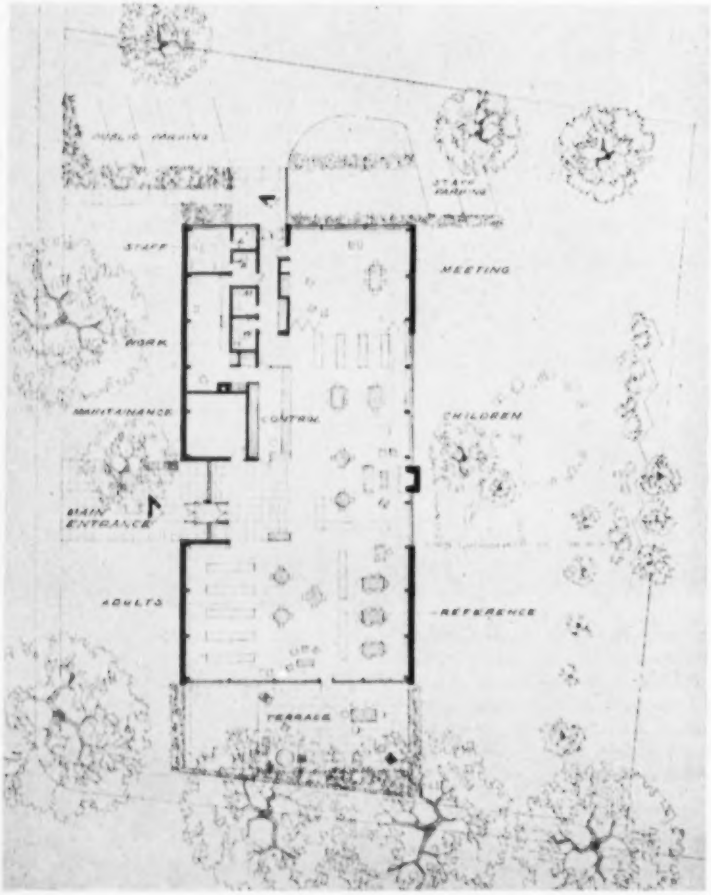
award citation. Central Library, San Bernardino, California: Clare Henry Day, Architect; Carl B. Johnson, Structural Engineer. The size of the building site would not allow all of the activities to be carried on at the same level, so the browsing stacks were elevated to the second floor, away from street noises. Popular and seven-day books can be checked out quickly and conveniently at the street level. The library is planned to accommodate the public comfortably, even after a 25 to 30 percent increase in population of the city.





award citation. District Court House, St. Louis County, Hibbing, Minnesota: Jyring & Jurenes, Architects; L. E. Stegner, Designer. This building is designed as a supplemental court house in a large northern Minnesota county and contains space for almost all functions of county administration. A central office strip separates two main blocks, housing public health and county jail facilities.





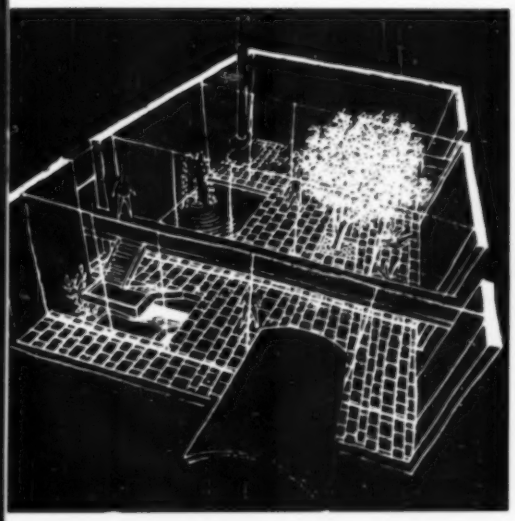
award citation. Tufts Library, Branch Building, Weymouth, Massachusetts: Carl Koch & Associates, Architects. A simple pitched roof is designed to blend with the architectural surroundings. A rectangular plan allows all functions to center about the control area. The meeting room, used mostly by children, contains facilities for audio-visual instruction and entertainment and can be closed off by a folding partition.

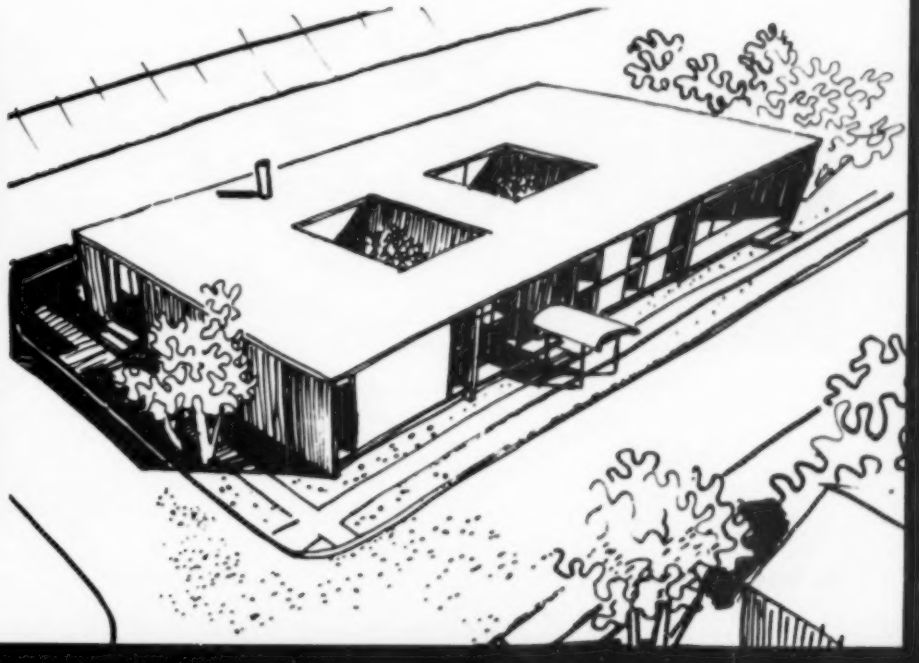
recreation

Entries in the Public Use category were so many and varied that the Editors of P/A created another category for Recreational buildings. The Jury's task was difficult enough, without asking them to judge courthouses alongside country clubs and roller rinks; separating public buildings designed for fun from those designed for serious matters seemed a logical breakdown, since the design characteristics of the two types are so different. In no other category of building is the architect's freedom as great as it is in Recreation. Unfortunately, his freedom to go wrong is as great as his freedom to do fine and exciting architecture (as is evidenced in the thousands of garish movie theaters that have been built in recent years). Yet the fact is that many architects, like Thalheimer & Weitz and Paul Rudolph, are really doing wonderful work in recreational projects (as well as in other types). In the Neighborhood Center (*below*) by Thalheimer & Weitz, which won the Design Award in Recreation, the Jury was pleased with the way the Architects caught a feeling of restrained and civilized gaiety without the extroversion that could have ruined a building of this kind. Ashbourne Country Club, designed by the same firm, is an example of clear thinking for its type—a kind of building which is usually the product of a confused program developed by clients who cannot decide whether they want enclosed formality or open relaxation. Here is a disciplined openness compatible with both formal evening relaxation and daytime fun. In Paul Rudolph's Floating Islands project we see one of the real rarities of architecture—a commercial enterprise dependent upon highway traffic for its business, which employs good architectural design to attract that business.

award

design award. Neighborhood Center, Philadelphia, Pennsylvania: Thalheimer & Weitz, Architects. The perspective (*below*) shows the building with a future addition, which is not shown in the plan *(left)*. The interplay of two levels with two completely open courtyards was considered by the Jury to be gay, lively, and in character with the nature of the building, which results from an interesting social planning program.





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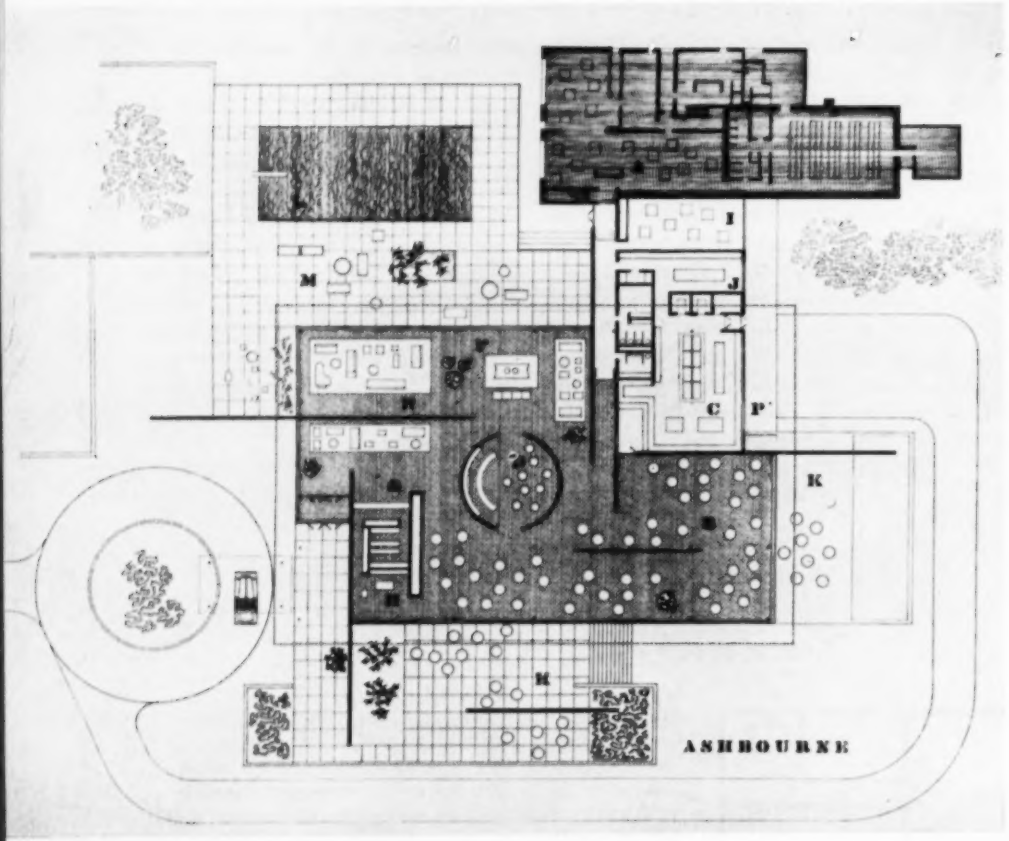
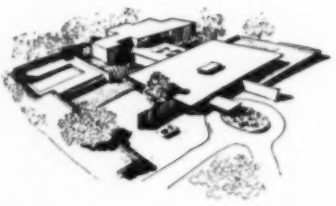
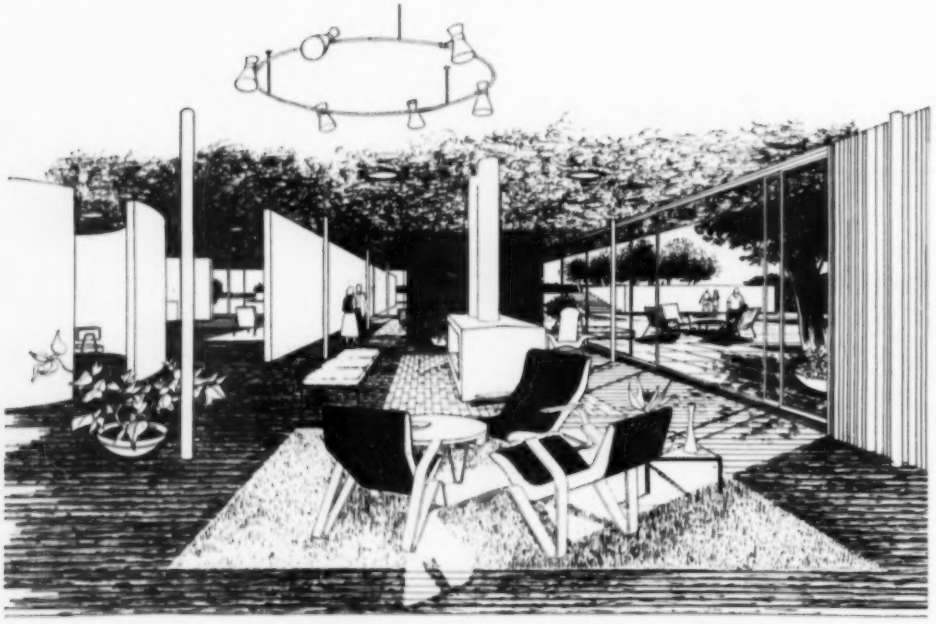
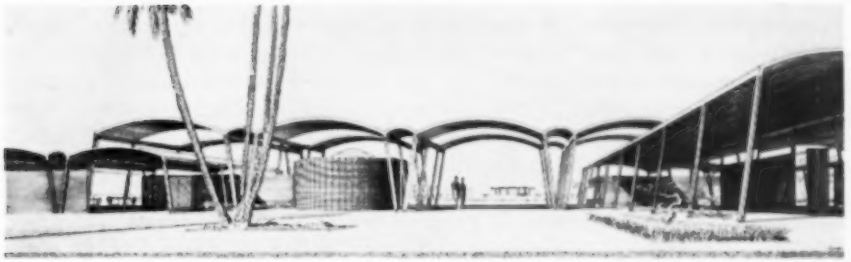


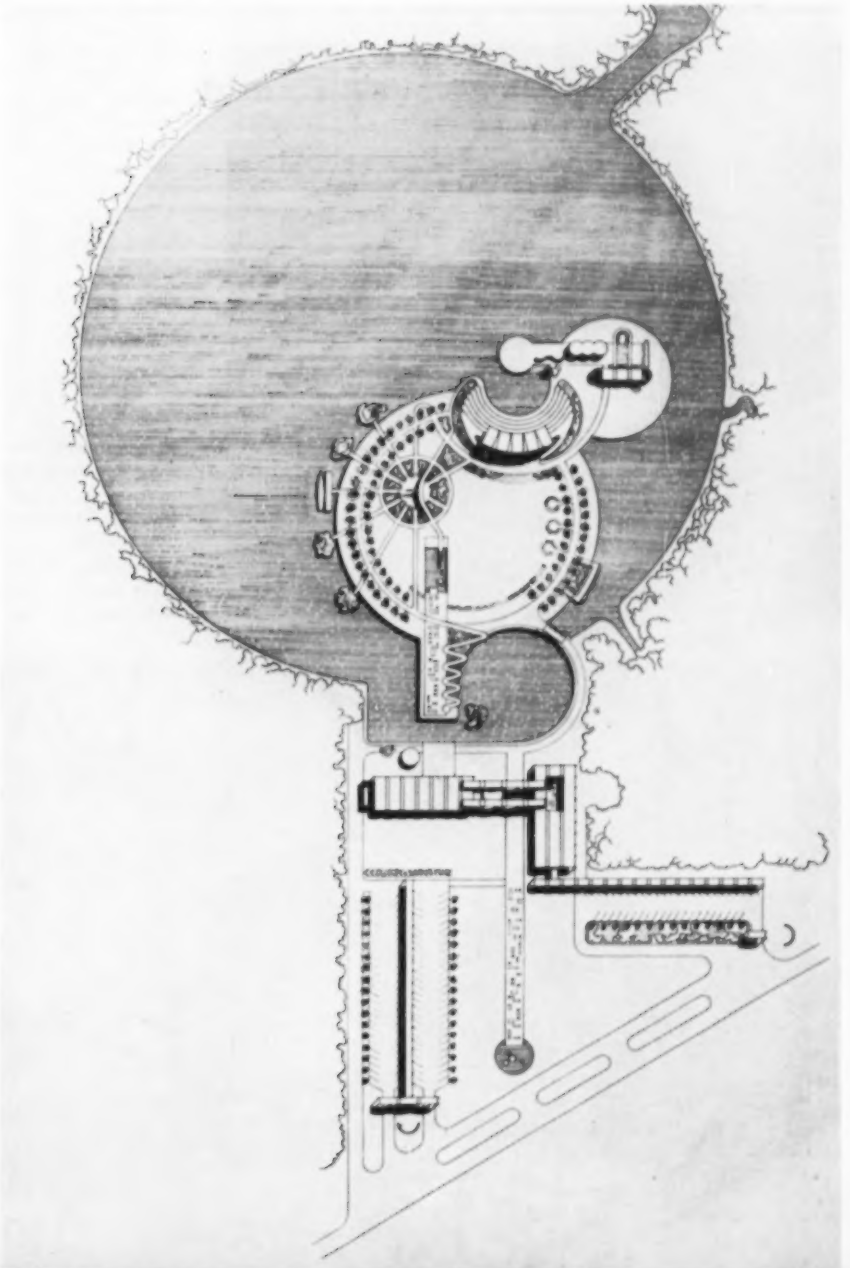




award citation. Ashbourne Country Club, Philadelphia, Pennsylvania: Thalheimer & Weitz, Architects. A structural grid supporting a steel-framed slab will roof a system of nonbearing walls. The cylindrical cocktail bar should act as a spatial foil for the adjacent extraverted spaces, many of which enjoy vistas of the rolling golf course.

award citation. Recreation Center for Floating Islands, Inc., Leesburg, Florida: Paul Rudolph, Architect: Ebaugh & Goethe, Engineers; M. B. Foster, Landscape Architect. Designed to attract the motor tourist, the Center will provide entertainment in the form of water ballet, exhibition diving, swimming feats, and occasional drama. Construction will feature bent-plywood barrel vaults supported by regularly spaced wood bents.

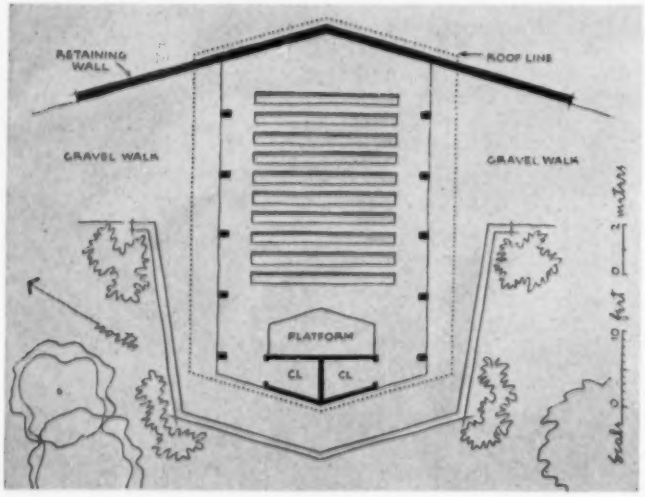




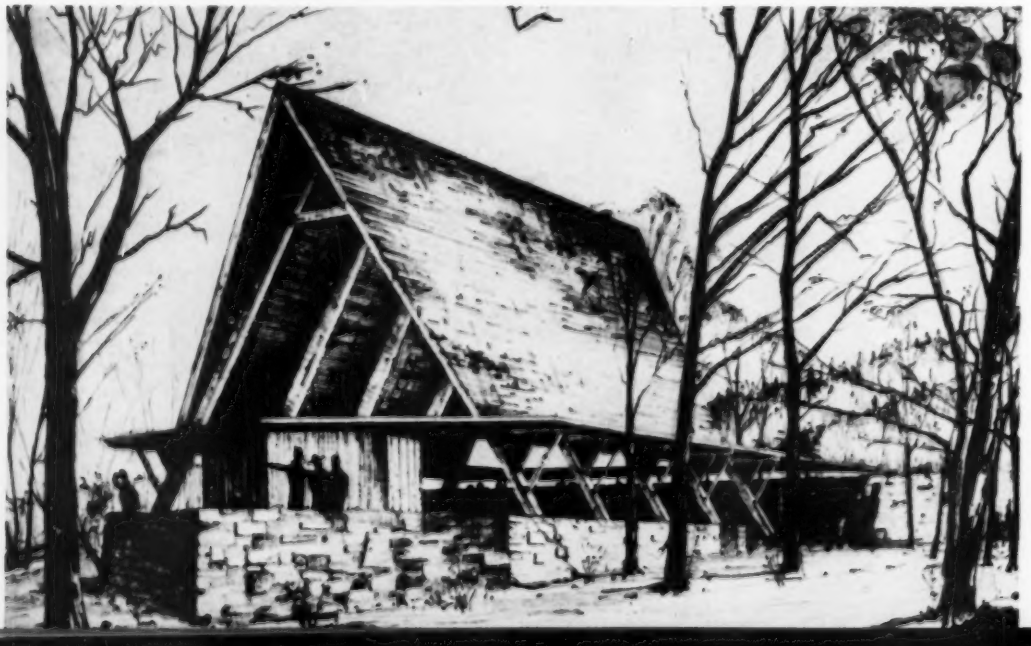
religion

The Jury felt that the religious structures premeated and shown here indicate that this building type—low in dollar-volume activity, but important as a measure of design maturity—is reaching a degree of gratifying honesty and quiet dignity, after a period of extravagant fumbling for contemporary expression. It was noted that more and more religious buildings are designed to serve not only as places of worship but also as centers for instruction and community social activity. Where this is the program, the design problem is the integration of two mass elements—the dominant church and the subordinate social and instruction elements. We see in the church a structure that functions primarily as symbol, within which prescribed ritualistic activities take place. Accommodating these activities is not often a difficult task for the architect, but handling the symbolism without producing banal clichés seems to be a rare achievement. Doing it in terms of structure—such as the integrated Cross in Anshen & Allen's Chapel of the Holy Cross—generally produces the most satisfying solution, but even this can and often does lead to ridiculous *tours de force*. Eric Smith's Boy Scout Chapel, being nondenominational, did not require special symbolism, but rather a feeling of reverence and rusticity (and resistance to the weather)—ends which were achieved by structural effects with virtually no added ornamentation. The Chapel of the Holy Cross was handled fundamentally the same way. However, these two churches are special cases, since their seasonal and regional uses make small demands upon them as shelters or as social centers. The building programs for the churches by Wong & Campbell, Mario Corbett, and Harold Spitznagel & Associates are more complex and, therefore, more typical. Here we see the nave in a dominant relationship with subordinate elements. The structure of the nave in each case is well expressed, and is also integrated with the subordinate structure.

award



design award. Nondenominational Chapel, Louis D. Beaumont Boy Scout Reservation, St. Louis Council, Boy Scouts of America, St. Louis, Missouri: Eric W. Smith, Jr., Architect. The structure of this chapel is immediately apparent. The Jury felt that the simple expression inspired a feeling of religious dignity, without becoming ornate or unnecessarily complex. Since it is a chapel for summer use only, it is not enclosed.



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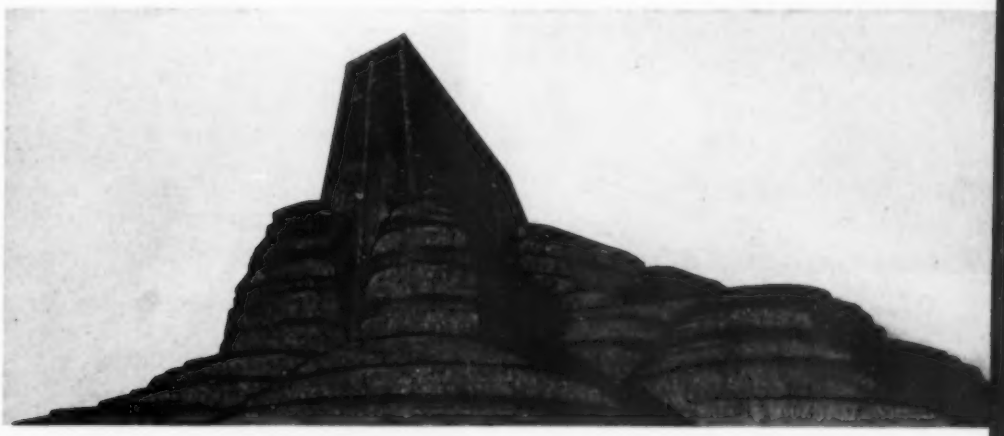
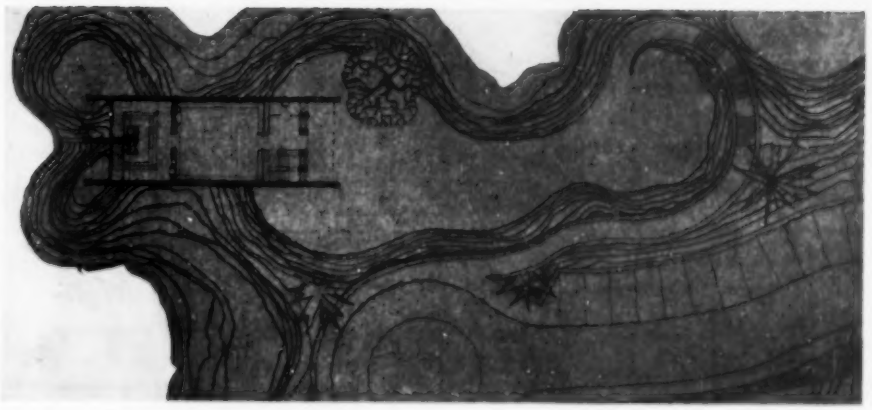
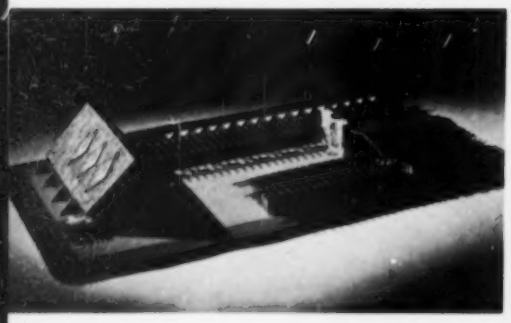
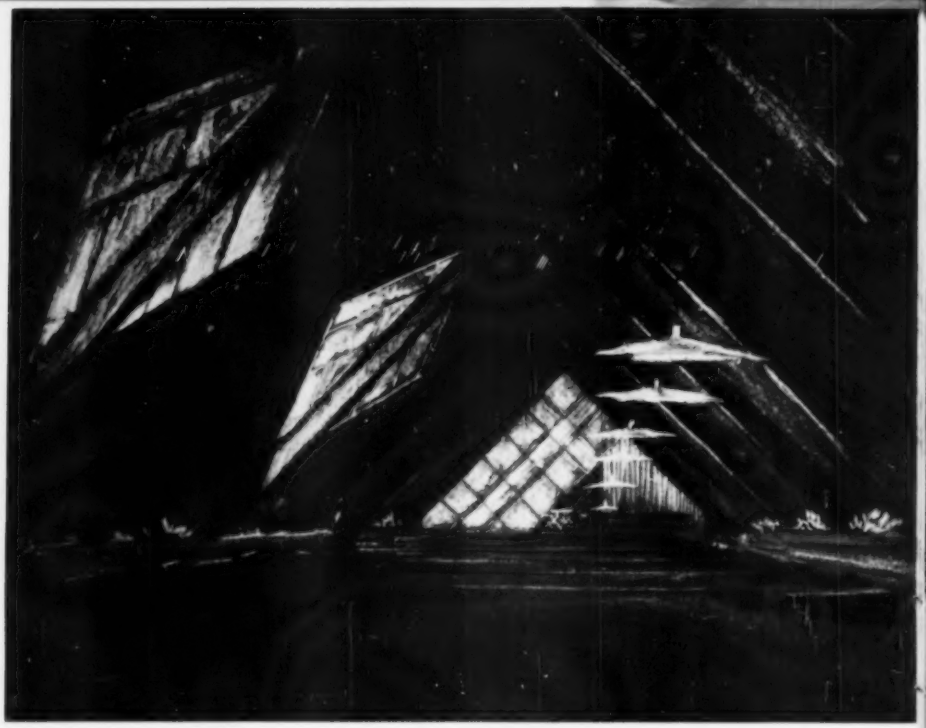


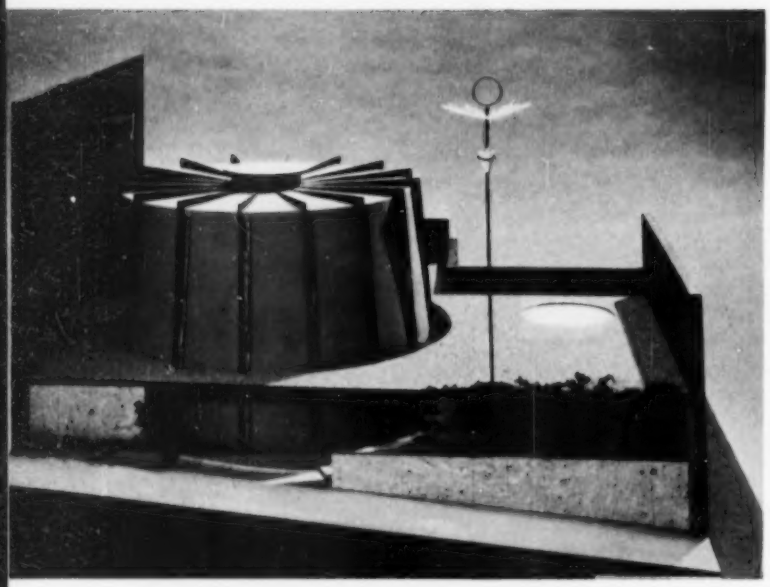
award citation. Chapel of the Holy Cross, Sedona, Arizona; Anshen & Allen, Architects; Robert D. Dewell, Consulting Engineer. Donated by Marguerite Staude in memory of her father and mother, this chapel is more "location" than "architecture," which is as it should be, according to the Jury. The problem here was one very similar to that at Burnam Hoyt's Red Rocks Amphitheater near Denver—using the minimum of construction to define and utilize a naturally beautiful rock outcropping. The bold, simple structure is left completely open. The symbolic cross, though conventional, is also an important structural element—handled in a visually exciting way.



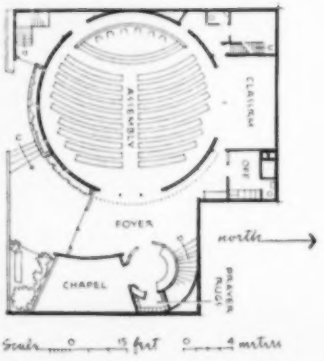


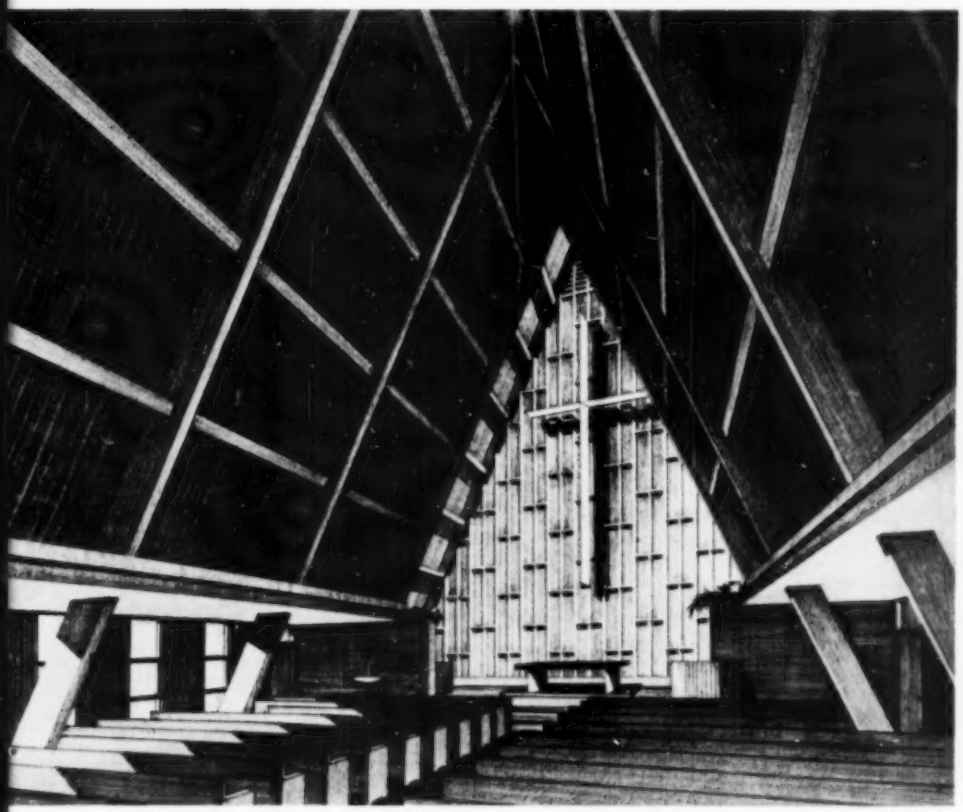


award citation. Hope Lutheran Church of San Francisco, California: Mario Corbett, Architect; Mac D. Perkins, Structural Engineer. The nave, at one end of the site, is connected to the social hall, at the other end, by a wing of classrooms. Planning around an open court permits social functions to be held both inside and out; the masonry fireplace serves both areas. The interior of the nave is lighted on one side by large glass areas and on the other by hanging artificial lights. The asymmetry of the leaning cross is reflected in the design of the altar.



award citation. Buddha's Universal Church, San Francisco, California: Worley K. Wong, Architect, and John Carden Campbell; Eckbo, Royston & Williams, Landscape Architects; Raymond Rice, Painter-Sculptor; Milford Greer, Glass Designer. Rigid-steel bents and brick walls make up the hull of the auditorium, which can be opened to accommodate overflow crowds. In addition, there is a classroom on the main floor and also classrooms, a library, a social lounge, and dining facilities on the lower floor.





award citation. First Congregational Church, Spencer, Iowa: Harold Spitznagel & Associates, Architects; W. S. Steele, Chief of Design; James H. Walsh, Associate Architect; Bolt, Beranek & Newman, Acoustics Consultants; Spencer Construction Company, General Contractor. A forceful structure and mass, combined with clean detailing, made this project pleasing to the Jury.

residential design

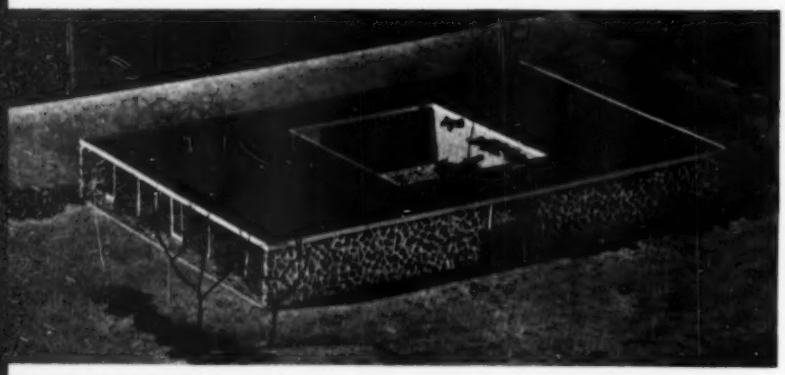
More entries were received in this category than in any other, so the Editors of P/A broke it into three divisions: Custom-Designed Houses; Builder Houses; and Apartments.

In the first of these divisions appeared some of the most stimulating structural designs of the entire competition, ranging from the extreme simplicity of Eliot Noyes' house to the imaginative structure by George Kosmak which capitalizes on the slope of the hill to get a dramatic form. The Jury showed no particular concern or sympathy for one "style" or school of architectural belief over another. In every case, Citations were given only if the designs seemed to be good solutions to the programs, whether simple or complex, whether severe, picturesque, or organic. The result was an even balance of contemporary idioms, indicating the Jury's belief that it isn't the school of thought that the architect supports that matters; but whether the architect is a good one.

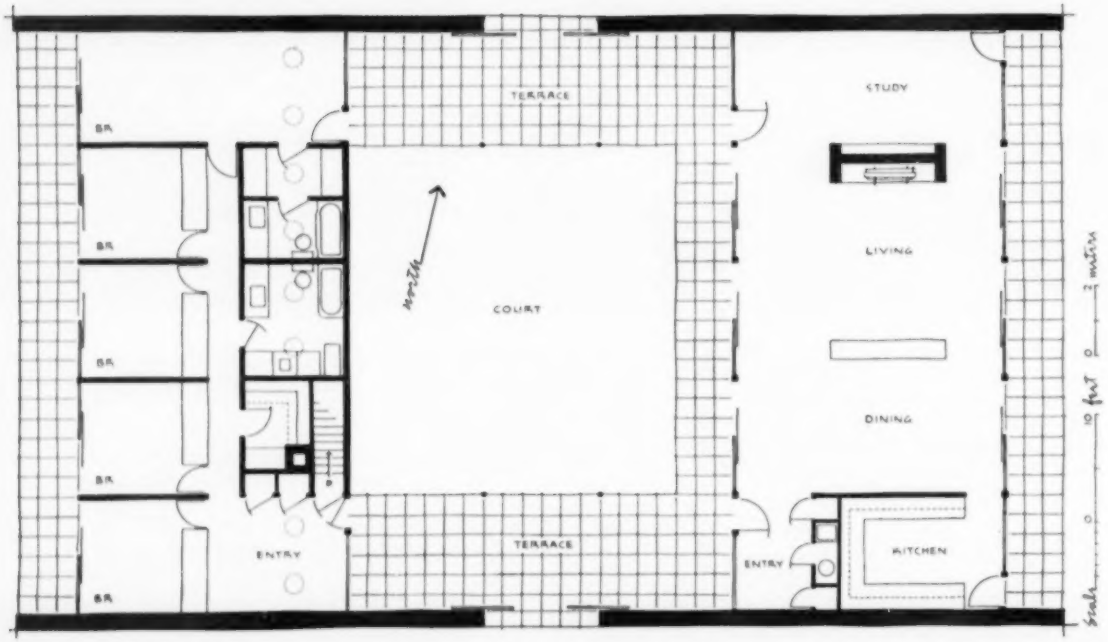
The nature of builder housing is such that strict limitations are unavoidable. Planning must be for the "average man" and his family; construction must be generally the same for all houses; and costs must be kept at a uniform minimum. Thus, although not impossible (as these designs prove), it is indeed difficult to make builder housing pay and yet make it first-rate architecture. Realizing these problems, the Jury was unanimous in giving Bassetti & Morse, Edward Fickett, and William Sayre the Award Citations.

Bertrand Goldberg's Northree-A Apartment House was applauded loudly by the Jury for its daringly open planning. The apartment house by Samuel Glaser & Associates and Hugh Stubbins was a welcome change from the corridor solution of apartment houses. A. L. Aydelott's apartment building was considered a refinement of the fireproofed-steel structure, and also interested the Jury in its relationship to the garage and office building.

award



design award. House, New Canaan, Connecticut: Eliot Noyes, Architect; Richard Kelly, Lighting Consultant. Its extreme simplicity and refinement both in plan and in structure, plus the adroit handling of the open court in the middle of the house, make this architect's home distinguished among the many fine houses submitted this year.



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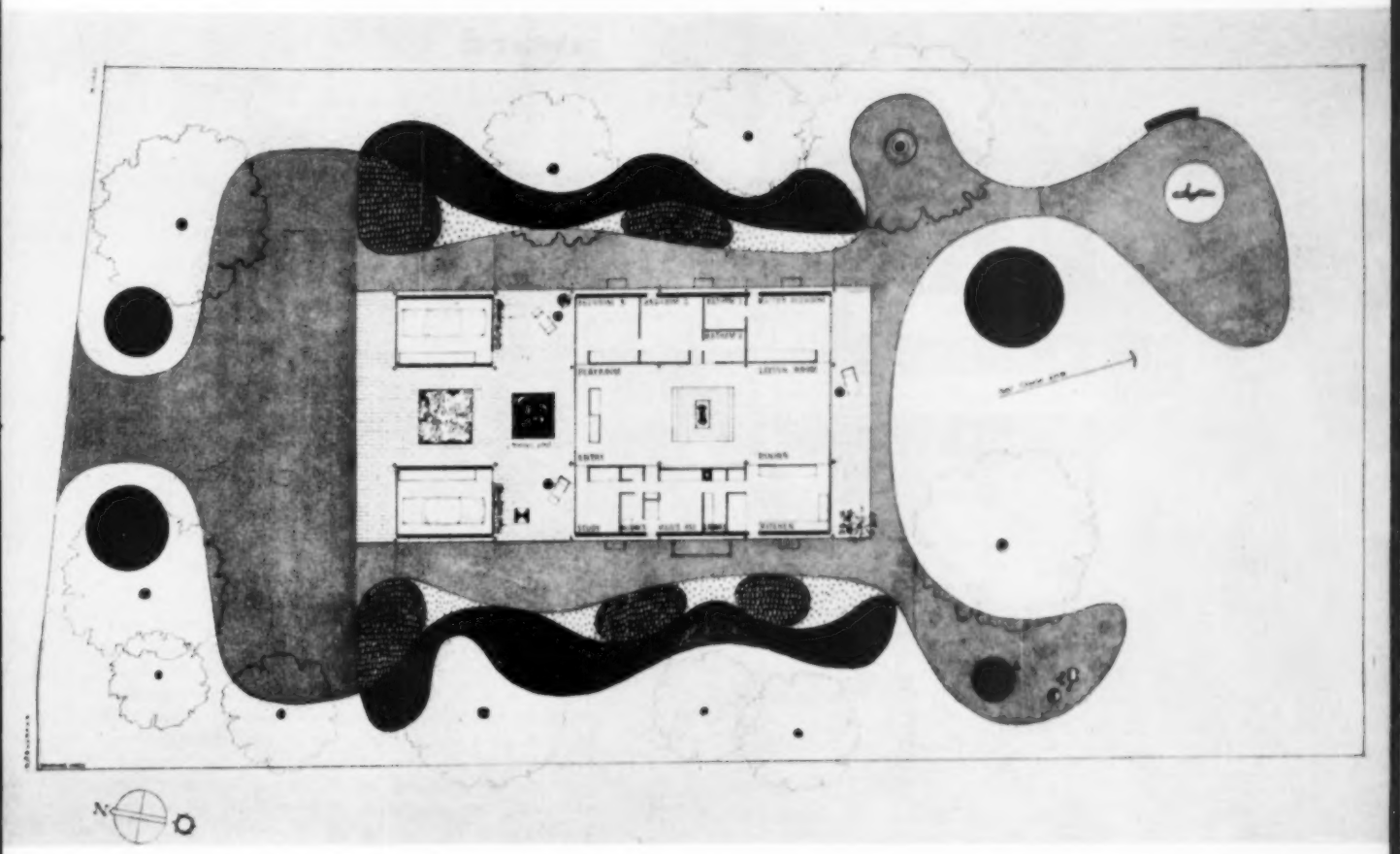
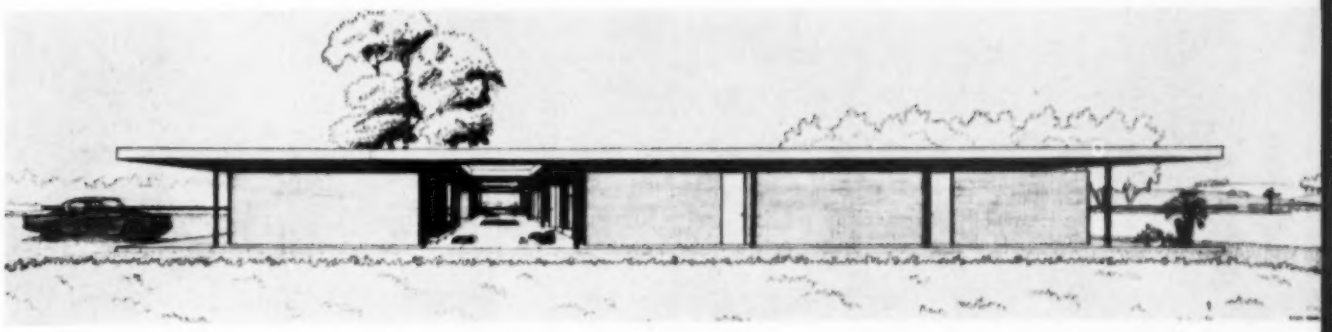
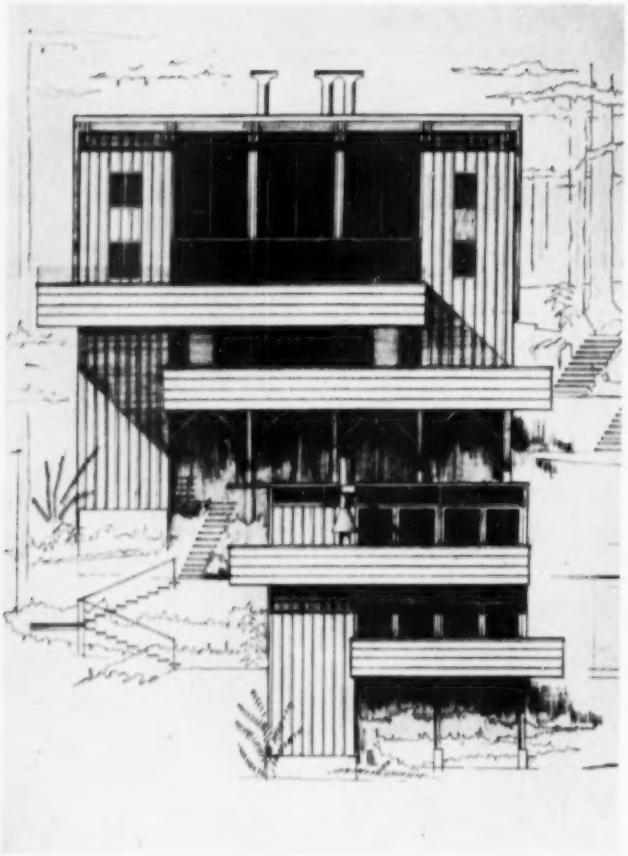


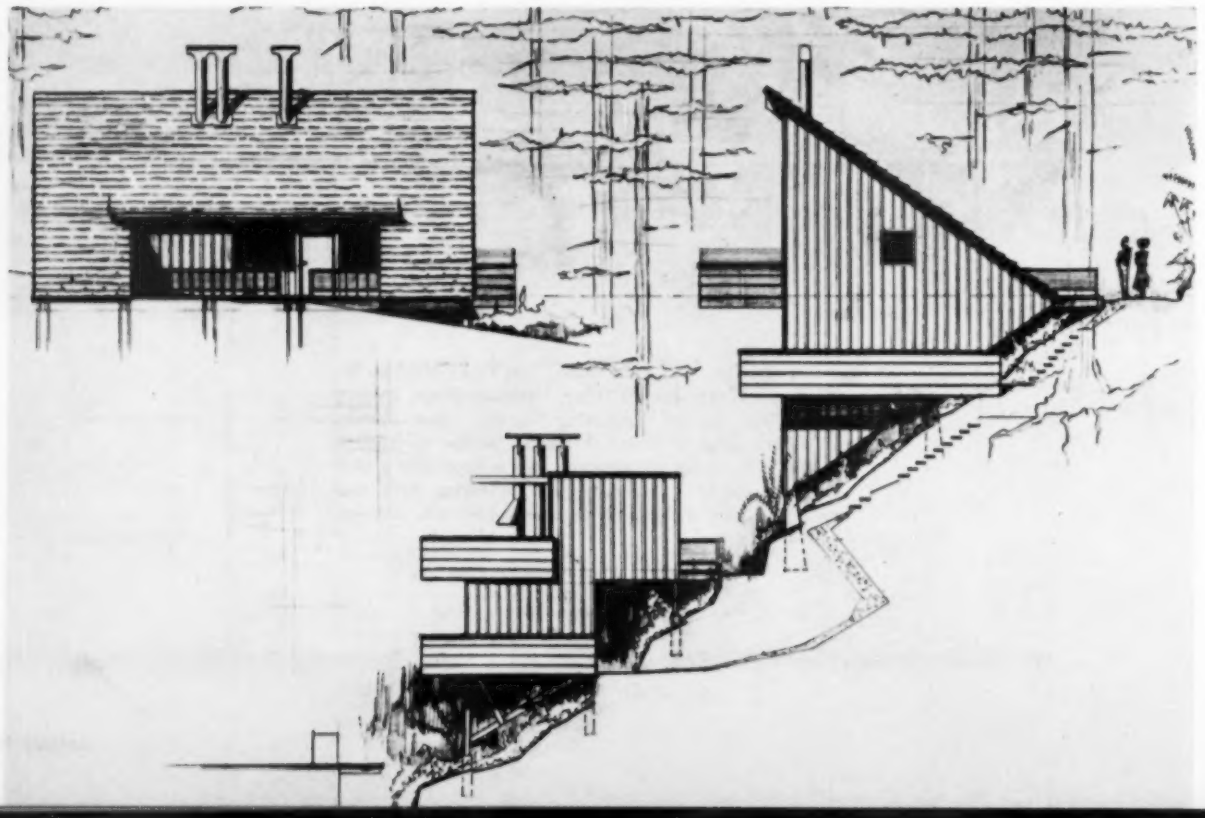


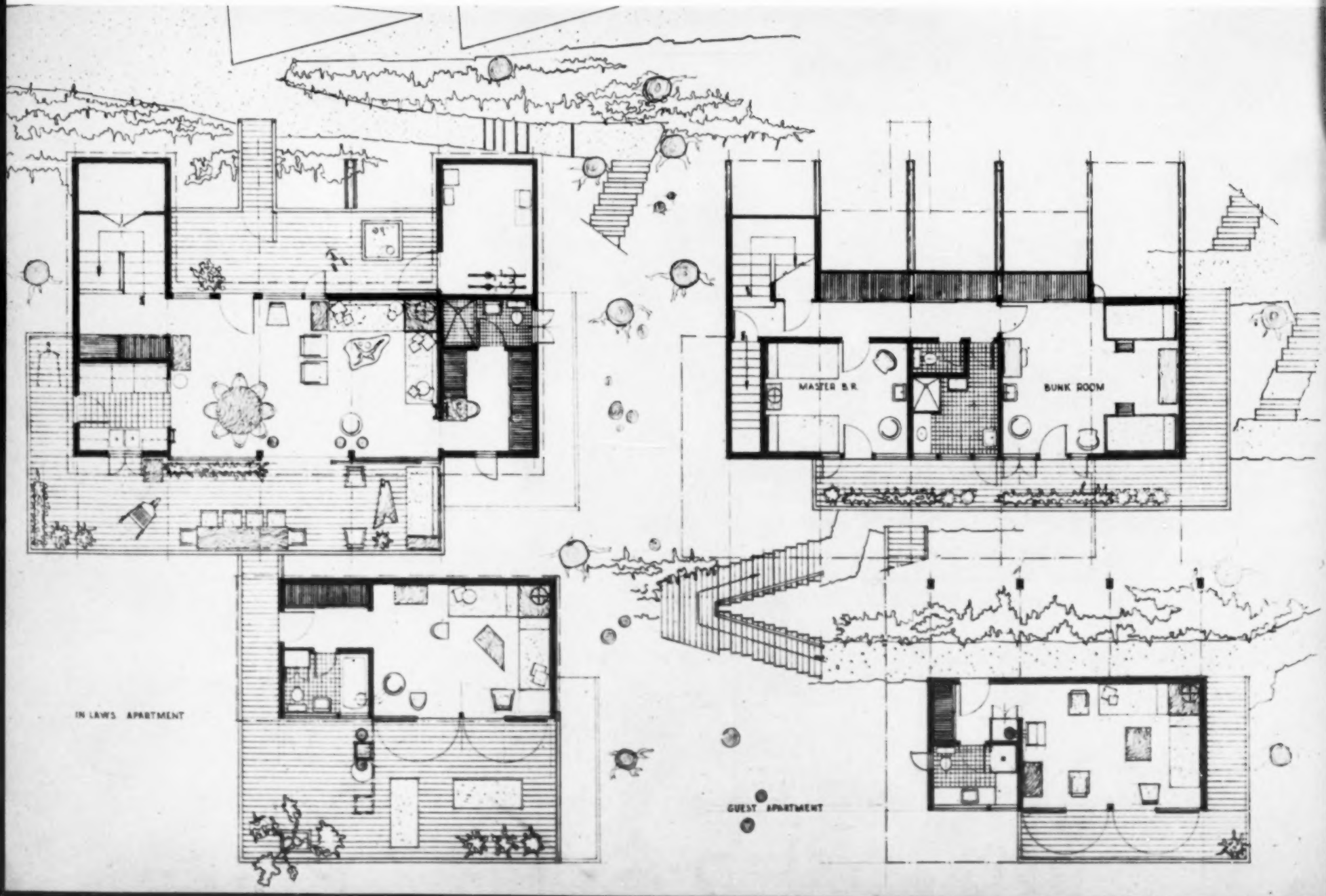
award citation. House, Scarsdale, New York: Abraham W. Geller, Architect; Ronald Geary, Desmond Henly, Project Staff; Peter Bruder, Consulting Engineer. Max Spivak, Mosaicist; José de Rivera, Sculptor. Similar in concept to the Noyes house *(acrosspage)*, this is essentially a slab supported by free steel columns. Nonbearing walls and partitions define the plan of the house. *(See also* INTERIOR DESIGN DATA.)



award

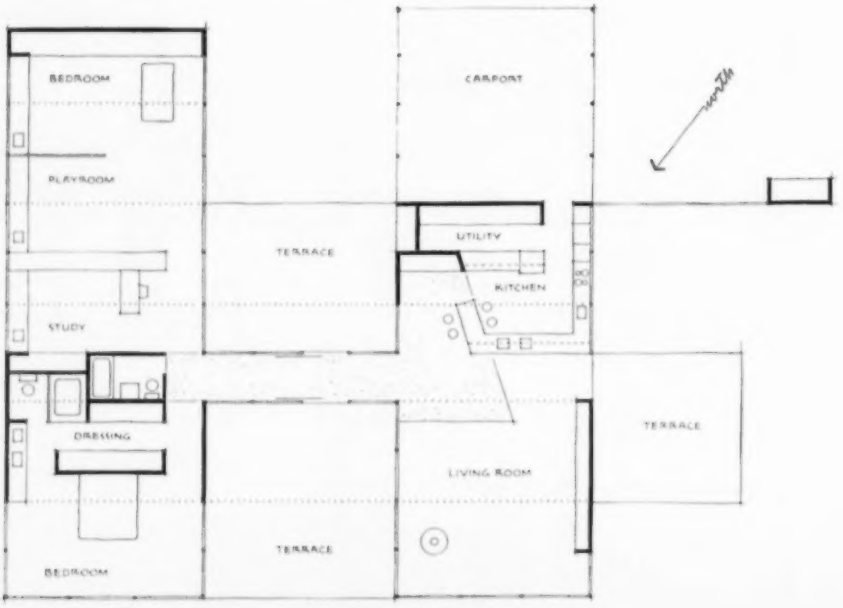
design award. Vacation House, Russian River, California: George Kosmak, Designer; Evelyn Gilcrest, Associate Architect; John E. Brown, Civil Engineer. While the Noyes house won its Design Award on the basis of well-handled simplicity and straightforwardness, the Jury wanted this house to get a special Design Award as a vacation place, because of its gaiety and exuberance. The way it staggers down the hill appealed, and the idea of separate in-laws' and guests' accommodations at lower levels seemed most sensible.

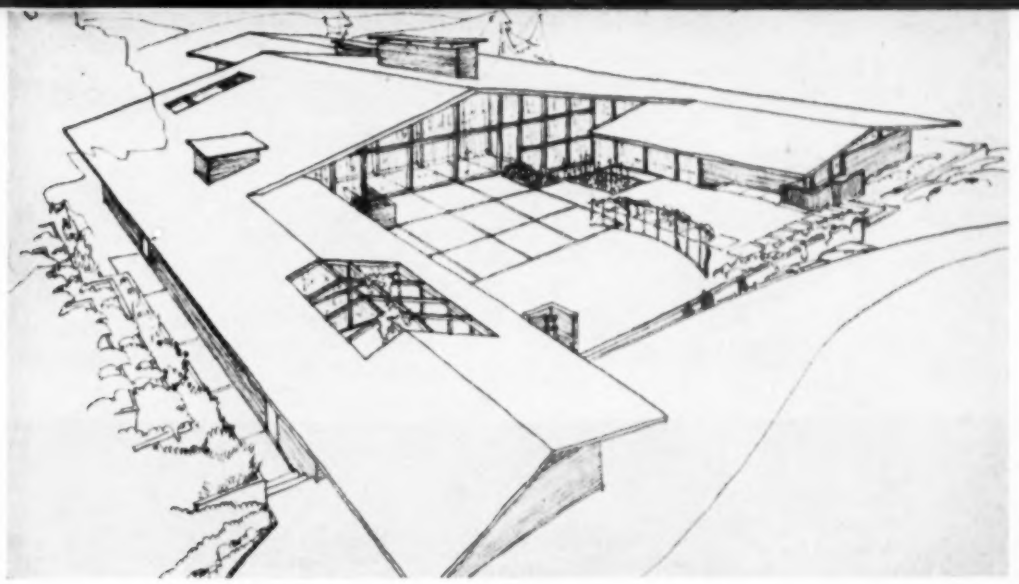


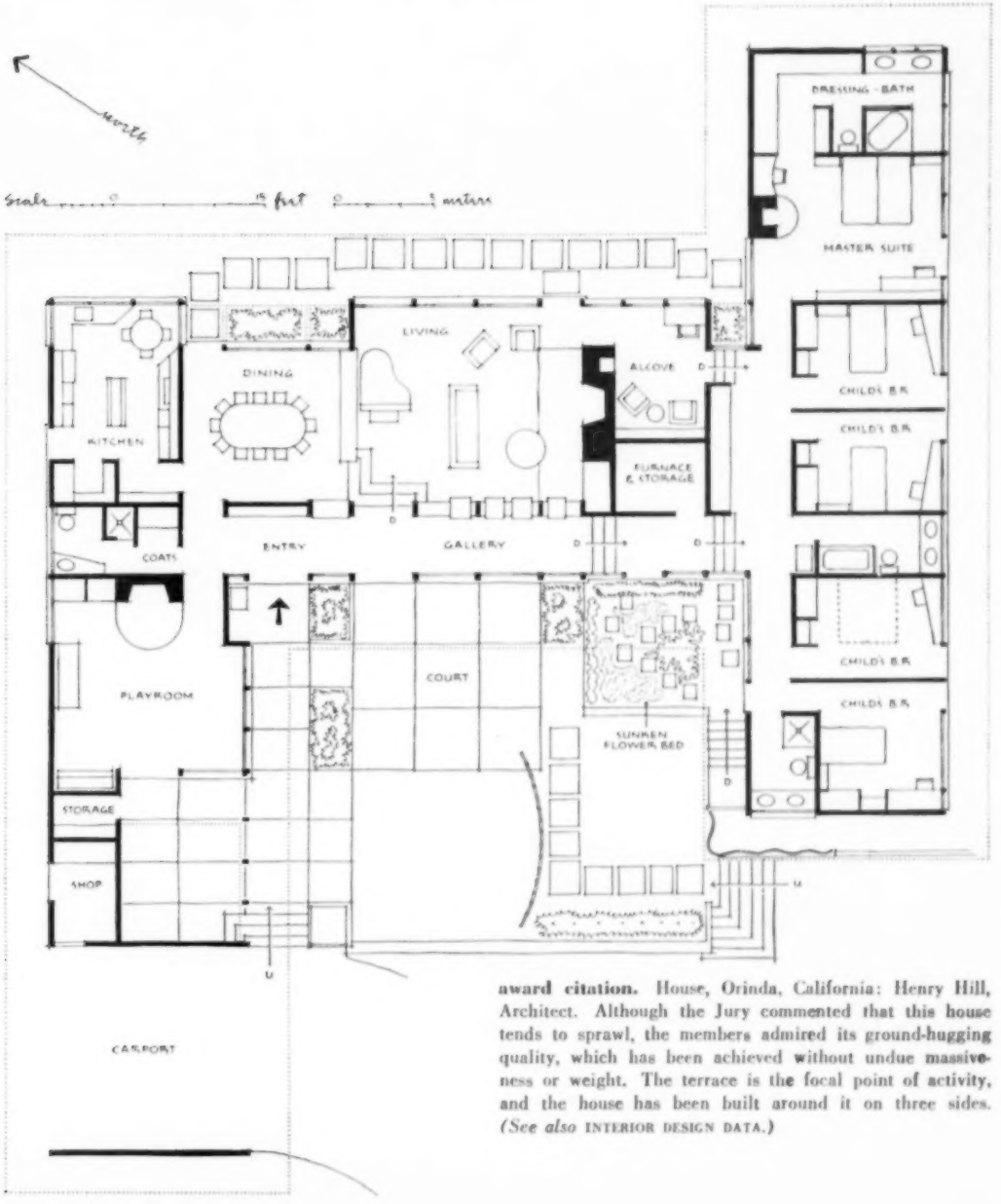

MASTER B.R.
BUNK ROOM
IN LAWS APARTMENT
GUEST APARTMENT

citations

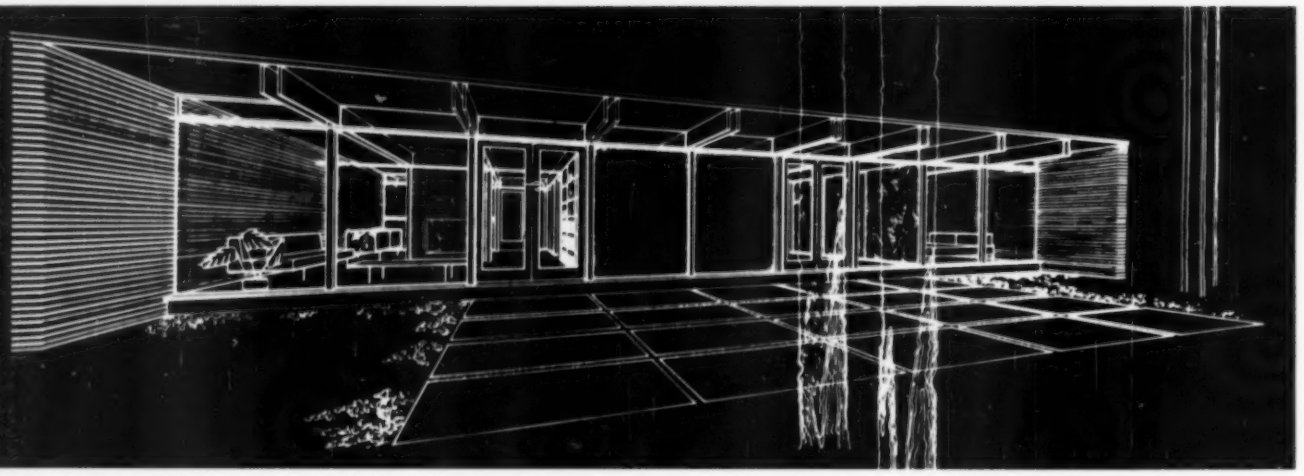
award citation. House, Philadelphia, Pennsylvania: Lewis Davis & Associates, Architects. The daring use of steel-bar joists was both liked and suspected by the Jurors, who thought it an excellent idea but also had doubts about the economy of maintaining them in the humid Philadelphia climate.

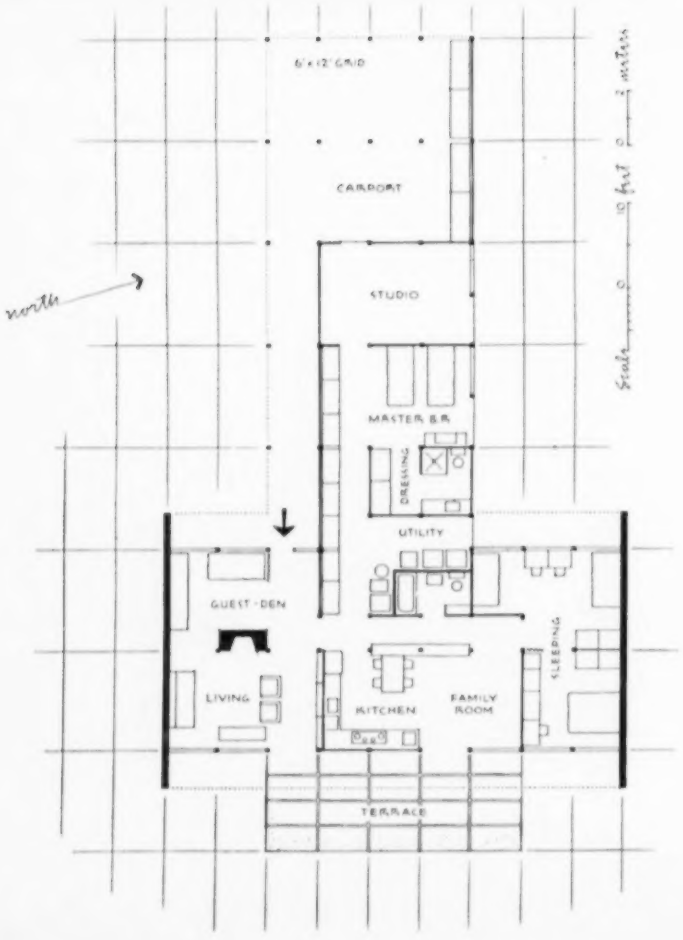




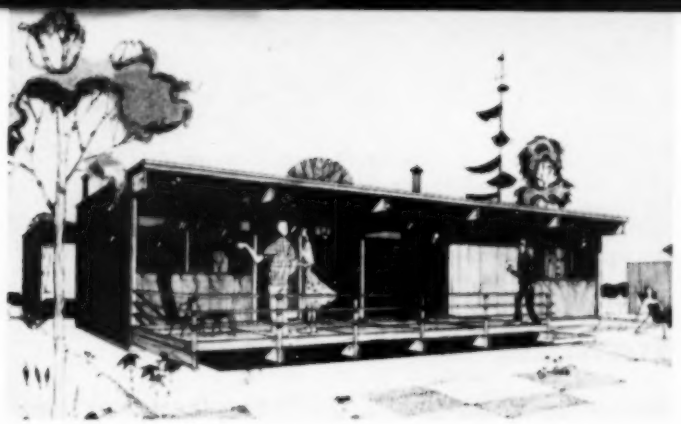


award citation. House, Orinda, California: Henry Hill, Architect. Although the Jury commented that this house tends to sprawl, the members admired its ground-hugging quality, which has been achieved without undue massiveness or weight. The terrace is the focal point of activity, and the house has been built around it on three sides. *(See also* INTERIOR DESIGN DATA.*)*

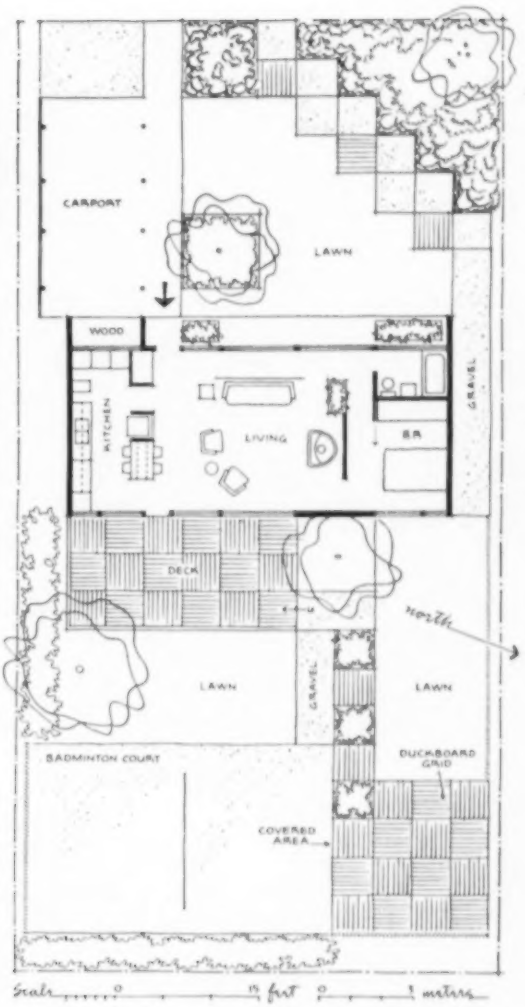


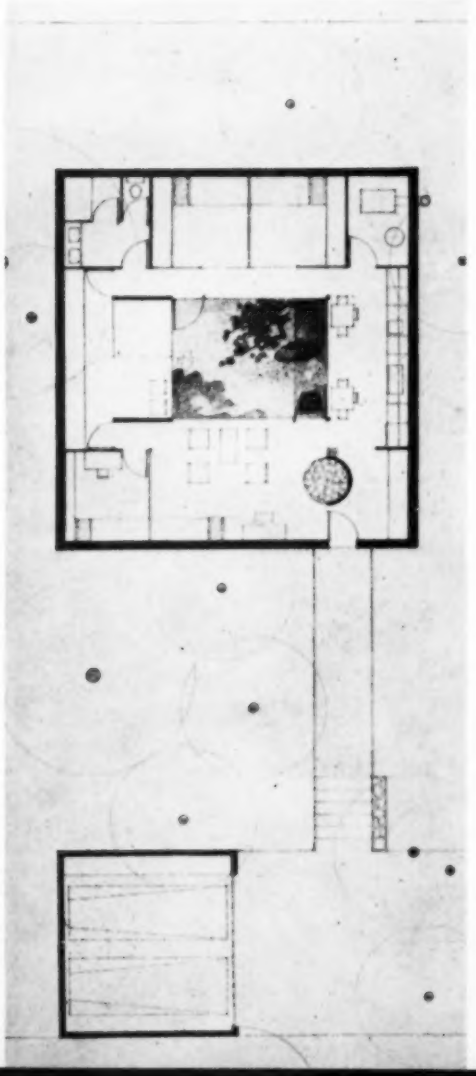


award citation. House, Willoughby, Ohio: F. S. Toguchi, Architect; William Behnke, Landscape Architect. The client wanted an informal house with a minimum of partitions and corridors and with simplicity of construction to permit him to do the major part of the work. The plan was laid out on a 6' x 12' grid which allows the use of systematic and continuous post-and-joist framing.

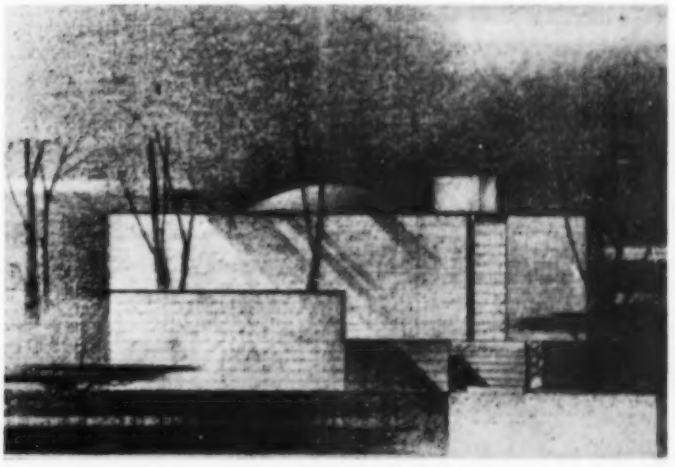


award citation. House, Weed, California: Arnold C. Gangnes, Architect; Robert C. Detrich, Mechanical Engineer. Designed for a couple, this project is a study in plot planning as well as in use of materials. Every inch of the small lot has been utilized to give a maximum of comfortable indoor and outdoor living. The house, despite its small size, presents an interesting structure and a quite open plan. Privacy has been provided for at the edges of the lot, leaving the interior of the house unusually free from enclosing walls and partitions.



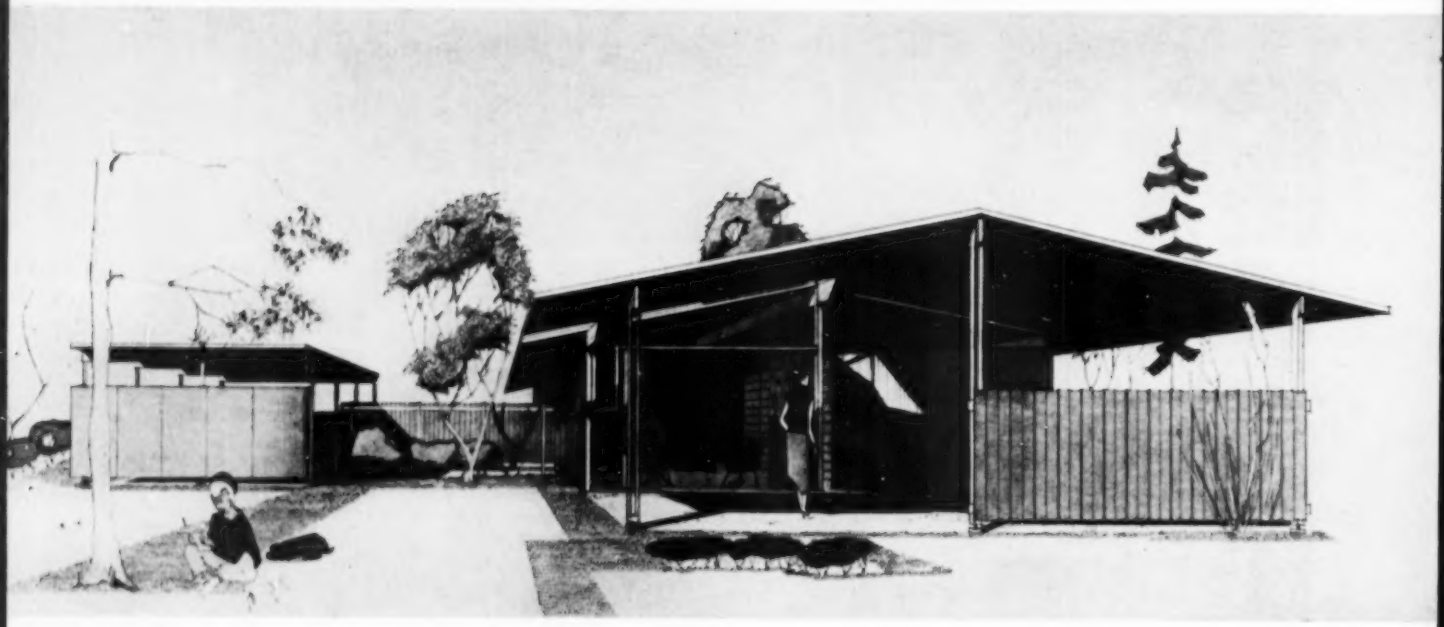


award citation. House, Glen Ellyn, Illinois: Schweikher & Elting, Architects. Designed to be built for approximately $25,000, this house will protect the client from having to view the environment, which is his wish. The dome over the garden is of copper screen supported by a dowel tetrahedron. Brick is used as a veneer.



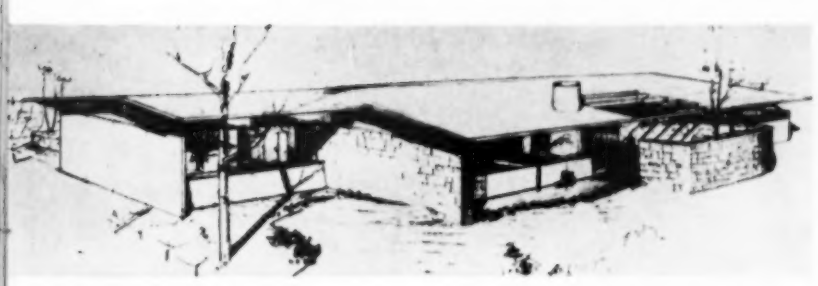
citations

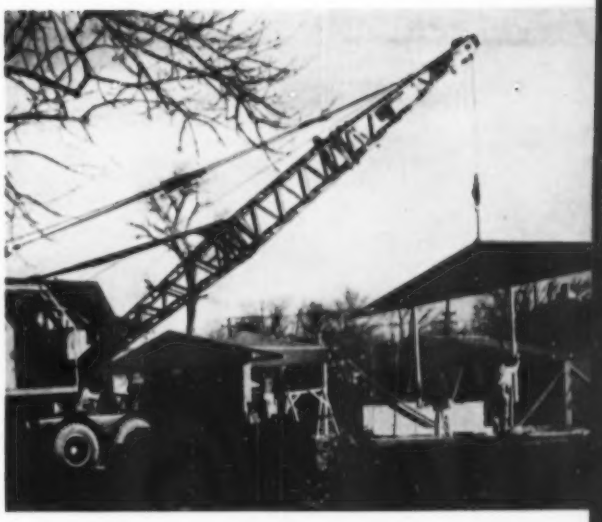
award citation. Builder House, Seattle, Washington; Bassetti & Morse, Architects; Radcliffe & Brightbill, Structural Engineers; Richard M. Stern, Mechanical Engineer. To find any kind of new house with 1500 sq ft selling for $12,950 would be newsworthy, but to find it designed like this one approaches the miraculous. The Jury felt that this house was far above the present standard of builder houses in design, planning, and use of materials; indeed, above most custom-built houses around the country.



Copyright applied for: Bassetti & Morse, *Architects*

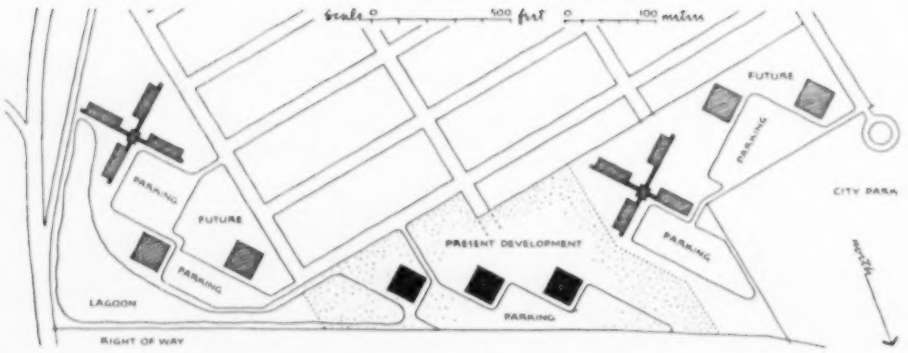
award citation. Builder House for Ib Falk Jorgensen, Denver, Colorado: William Berger Sayre, Architect; Ib Falk Jorgensen, Structural Engineer; Robrt L. Whittlesey, Heating Consultant; Julia Jane Silverstein, Landscape Architect. The Jury was pleased to see the problem of reducing building costs being met here in such a sensible manner. Prefabricated roof trusses will result in economy, add strength, and will not put any undue limitation on the design of the house.





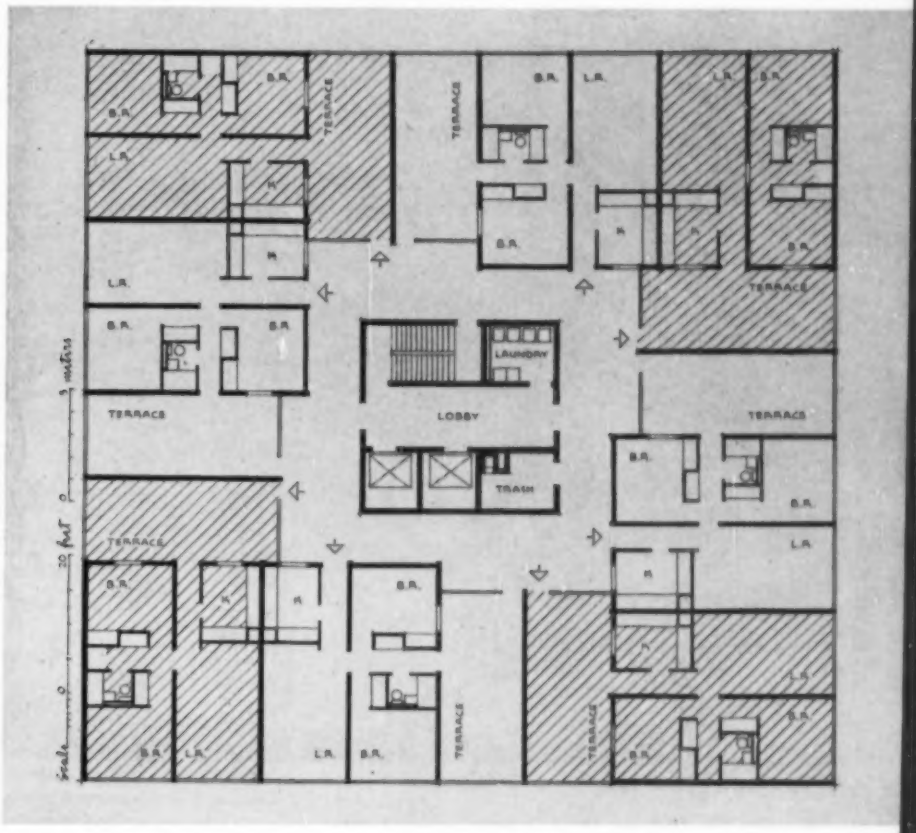
award citation. Builder Houses for Araco, Incorporated, Northridge, California: Edward H. Fickett, Architect. Even with the same general plan and the same construction methods, builder houses can be made interesting with good plot planning. Each one of these houses has its own character and feeling, which is achieved not by nailing on different façades but by careful manipulation of units and materials.

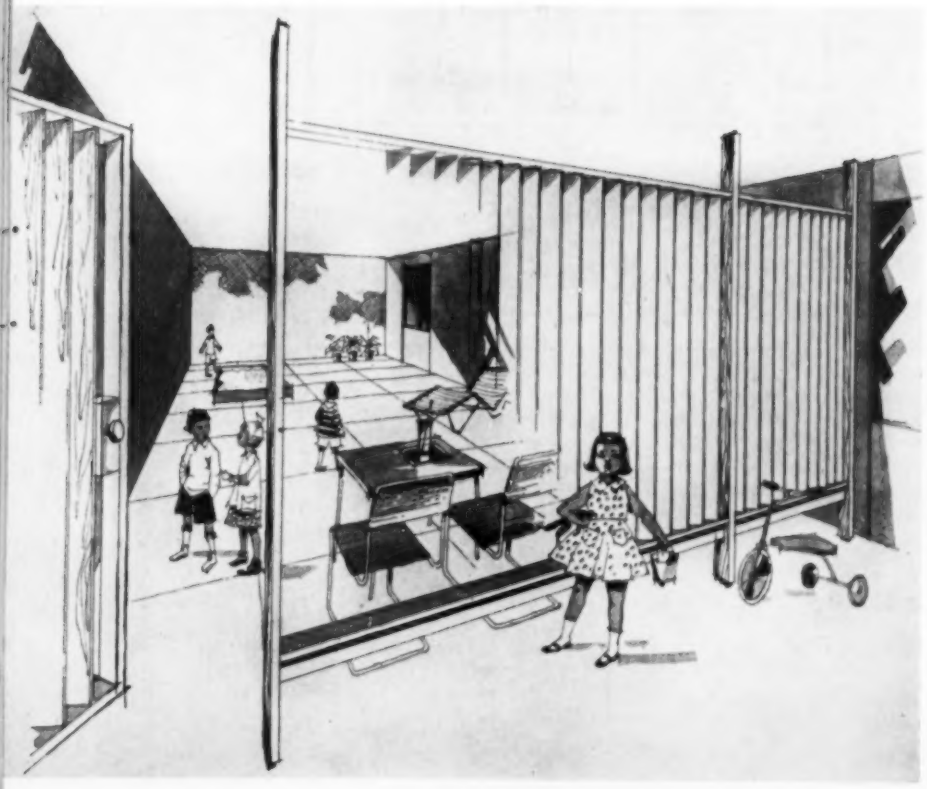
award



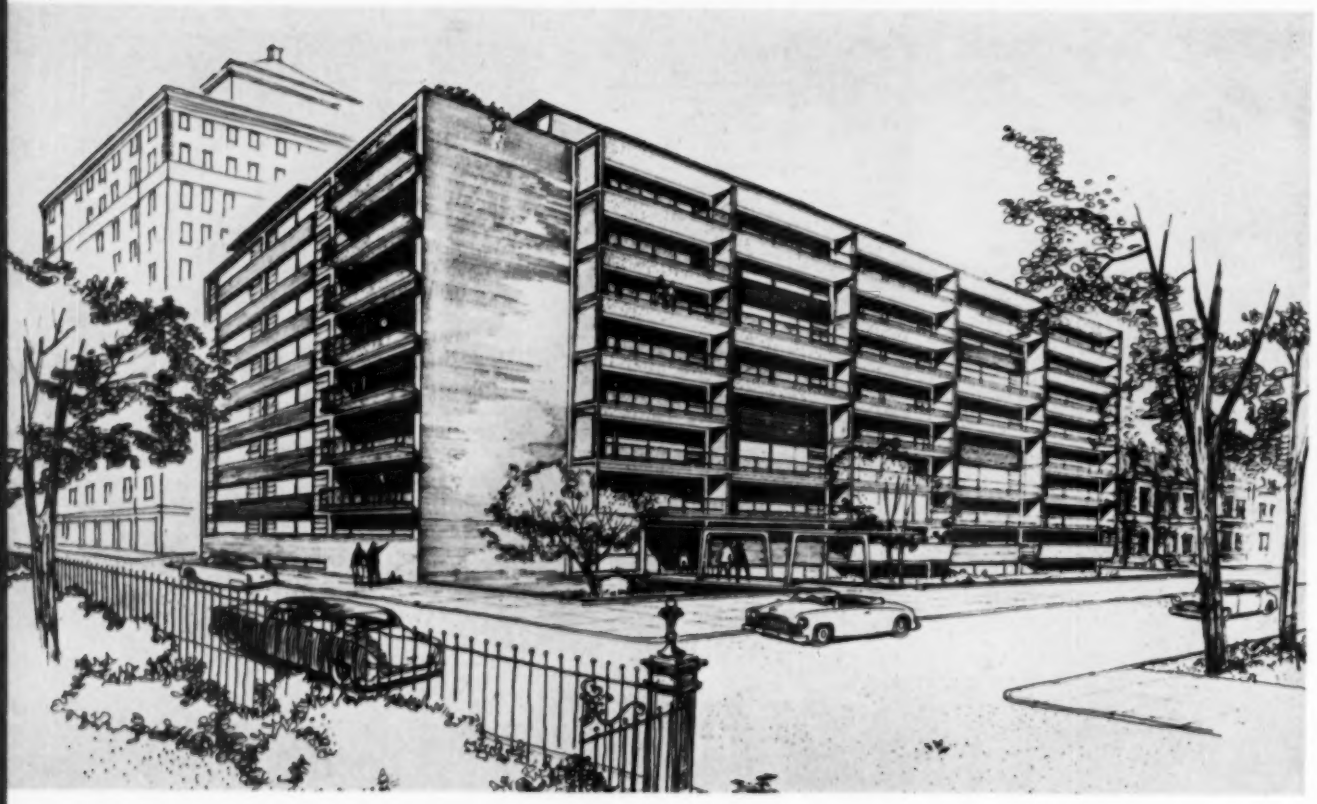
design award. Northtree-A (FHA), North Kansas City, Missouri: Bertrand Goldberg Associates, Architects-Engineers. Of the two basic building types in this housing project, the Jury liked especially the one above. Every floor contains four two-apartment blocks, each apartment having its own private terrace *(acrosspage)*. Construction: the concrete-slab floors will be poured in place, after which prefabricated concrete wall slabs will be lifted into place to support the next floor. The Jury commended plan, structural system, and appearance.

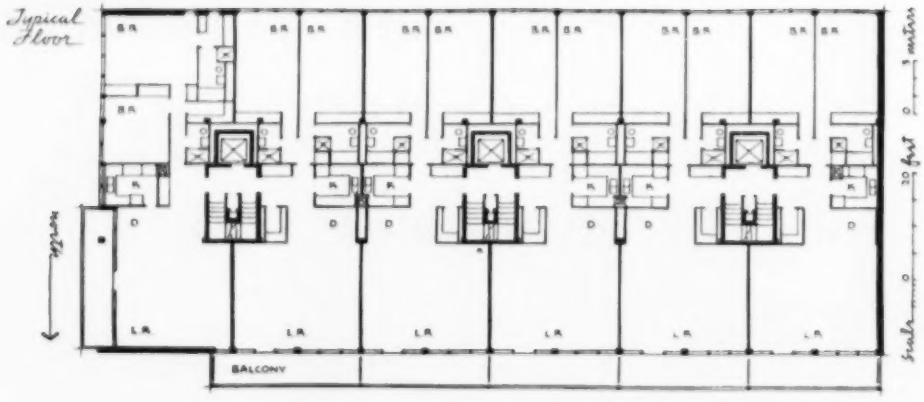
The central core of this apartment building contains two elevators, the fire escape, a communal laundry, and a trash chute, all of which are enclosed and isolated from the apartmented blocks. (*See also* INTERIOR DESIGN DATA.)



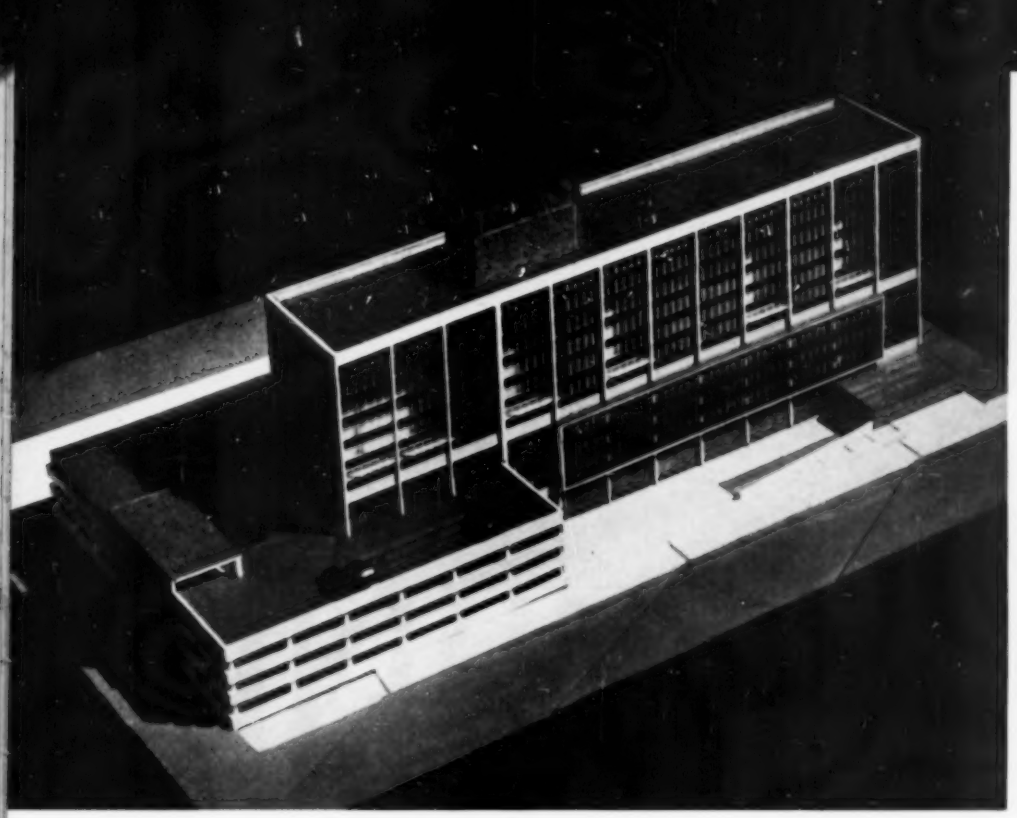


citations

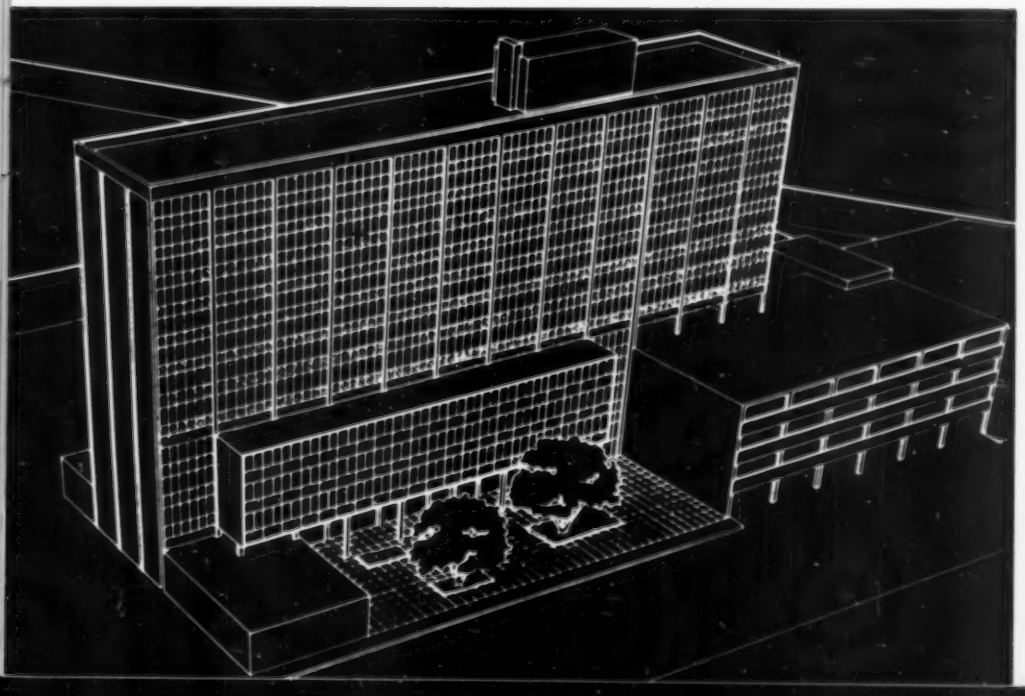


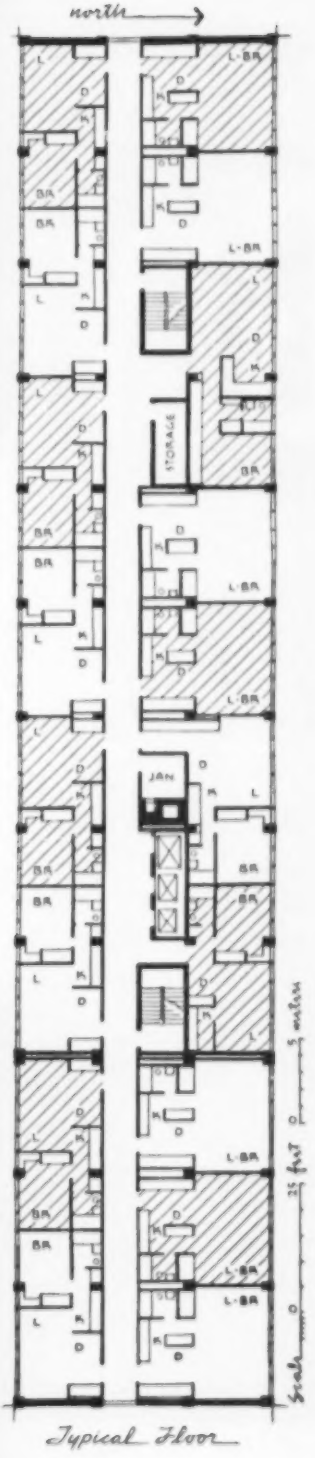


award citation. Apartment House, Boston, Massachusetts: Samuel Glaser Associates and Hugh Stubbins, Associated Architects. The feature in this apartment house which particularly pleased the Jury was the absence of corridors. By placing elevators between each pair of apartments, the Architects have provided typical apartments with through ventilation.



award citation. Apartment, Office, and Parking Garage Building, Memphis, Tennessee: A. L. Aydelott & Associates, Architects-Engineers. Although interested in the whole building as a unique combination of functional types, the Jury gave this Citation to the apartment unit. They thought the glass and fireproofed-steel frame was handled with taste and sensitivity, giving a maximum of light and useable living space. *(See also* INTERIOR DESIGN DATA.*)*





Typical Floor

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roofing failures

I am quite impressed by a study made by C. E. Lund & R. M. Granum (*Bulletin No. 34,* University of Minnesota) concerning insulated built-up roofs. They say that the majority of built-up roofs, either insulated or noninsulated, have given continued and satisfactory performance. Field surveys have shown that failure of roofs due to blistering is less than 5 percent of the total number of roof installations. Although this appears to be minor, in comparison with the large number of roofs giving satisfactory performance, the industry is constantly striving toward improvement in performance and the avoidance of any possible failures, irrespective of their causes. Ultimate perfection is desired, but the introduction of new designs in roof construction requires the reevaluation of the new problems as they occur. The various types of roof failures described in *Bulletin No. 34* have been classified into mechanical, construction, and roof blistering. Mechanical failures cover traffic, mechanical equipment, ventilators, and the like. Construction failures include inferior materials, poor workmanship, and the lack of quality control in the field. Roof blisters have been classified as *weather* and *structural* blisters. Weather blisters are the result of natural weathering of the roof surfaces. Structural blisters occur in many types of deformation of the roofing plies and are caused mainly by the expansion of air and water vapor. The principal conclusions resulting from this investigation are as follows: importance of good workmanship and field control governing roof specifications and materials; construction of roofs according to the approved and accepted specifications; the use of vapor-seal courses over all roof decks in cold climates and in temperate climates wherever conditions of high inside humidity exist; solidly mopping the plies of roof felts; avoiding the use of roofing materials having a high moisture content; avoiding roof application during inclement weather or upon a deck which is not thoroughly dry; exercising rigid control over the temperature of the bitumen; thoroughly brooming down all felts as quickly as possible following the application of the bitumen; and utilizing special precautions when applying roofs to uncured concrete decks to prevent any moisture from entering into the roof structure.

By the way, there is a spanking good bibliography in *Bulletin No. 34* that will not help explain away your design errors.

fly-ash

You may be interested to learn that fly-ash is coming into its own as a material for building construction. In New York City, it is permissive to use fly-ash as an aggregate for reinforced concrete when it has a fineness such that the surface area of the particles is not less than 3000 square centimeters per gram as determined by the air permeability method (I wish I knew what I am talking about) of the ASTM C-204-46T. In addition the fly-ash must have the following percentages of the materials specified:

Silicon dioxide—minimum of 35%
Aluminum oxide—minimum of 15%
Magnesium oxide—minimum of 3%
Sulphur as sulphur trioxide—maximum of 3%
Carbon—maximum of 12%

If it meets these requirements it may be used as a replacement of cement or as an admixture replacing sand, in controlled concrete only, and to an extent not greater than twenty percent of the weight of the cement used in the mix. When so used, the concrete must meet the strength requirements specified for concrete which does not contain fly-ash. It might not be a bad idea at this time to define what is meant by fly-ash. The City Fathers say it means the residue from burning pulverized coal in suspension which is separated and collected from the gases of combustion after they leave the furnace. The City formerly had to pay to get rid of it—today they can sell it. Anyone interested in ground up old specifications?

bored

It is embarrassing to admit this but in one of my specifications there appeared in the "Excavating, Filling, Rough Grading" Section the following clause:

"*BORING DATA:*

"Refer to General Conditions for Boring Information."

Some months after all the bidding copies of specifications were returned, I noticed that some bidder had scribbled a few words next to this clause: "*You're telling me.*"

Adams boner

My assistant, Tom Adams, who has been writing specifications since—well, who do you think did Lincoln's log cabin?—tells me about the time he wrote a specification for a court house. The Board of Estimate, representing the City, called his attention to the fact that the judges might very well resent his description of their benches. Tom asked why. The examiner pointed to a paragraph he had written entitled "Wooden Judges Benches."

transparent chemistry lesson

I don't see how you could sit there and tell me that fine sheet glass is made only from sand, soda ash, and fire. I insist it contains 70% silica or silicon dioxide (S_iO_2) (I am just showing off—these are the chemical names for sand), 20% sodium carbonate (Na_2CO_3) (soda ash), limestone or calcium carbonate ($CaCO_3$) (lime, salt cake or sodium sulfate), dolomite (44% magnesium carbonate, 56% calcium carbonate), alpite (a kind of feldspar containing roughly 25% of aluminum oxide), carbon (powdered coal), arsenic or arsenic oxide (used as refining agent), and cullet (scrap glass—from the French word "collet" or collar and referring to the glass which was usually left at the end of the blowpipe). I don't exactly know what you learned from the above, but isn't it a disgracefully long sentence? Especially so, coming from one who believes devoutly that what can't be said in a few words needs more thought.

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Rahway, N. J.

Rodgers Associates—*Interior Designers*
The Ballinger Company—*Architects*
Fred J. Brotherton, Inc.—*Builders*

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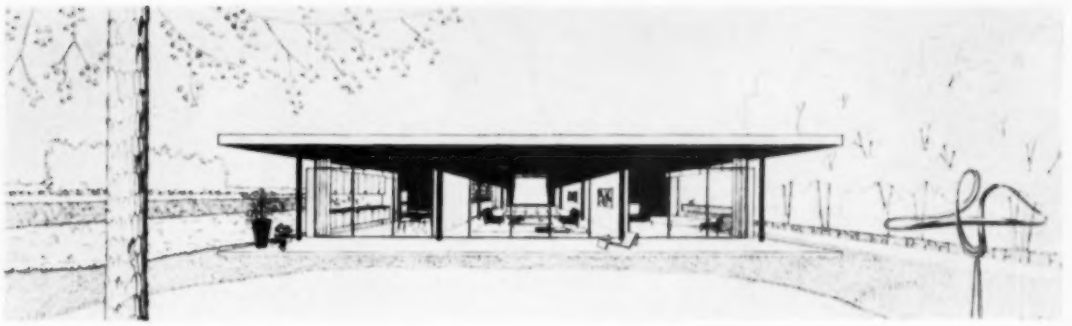
Indoors-outdoors design for a house: Abraham Geller, Architect; Ronald Geary and Desmond Henly, Project Staff; Max Spivak, Mosaicist; José de Rivera, Sculptor.
Perspective: Edward Knowles



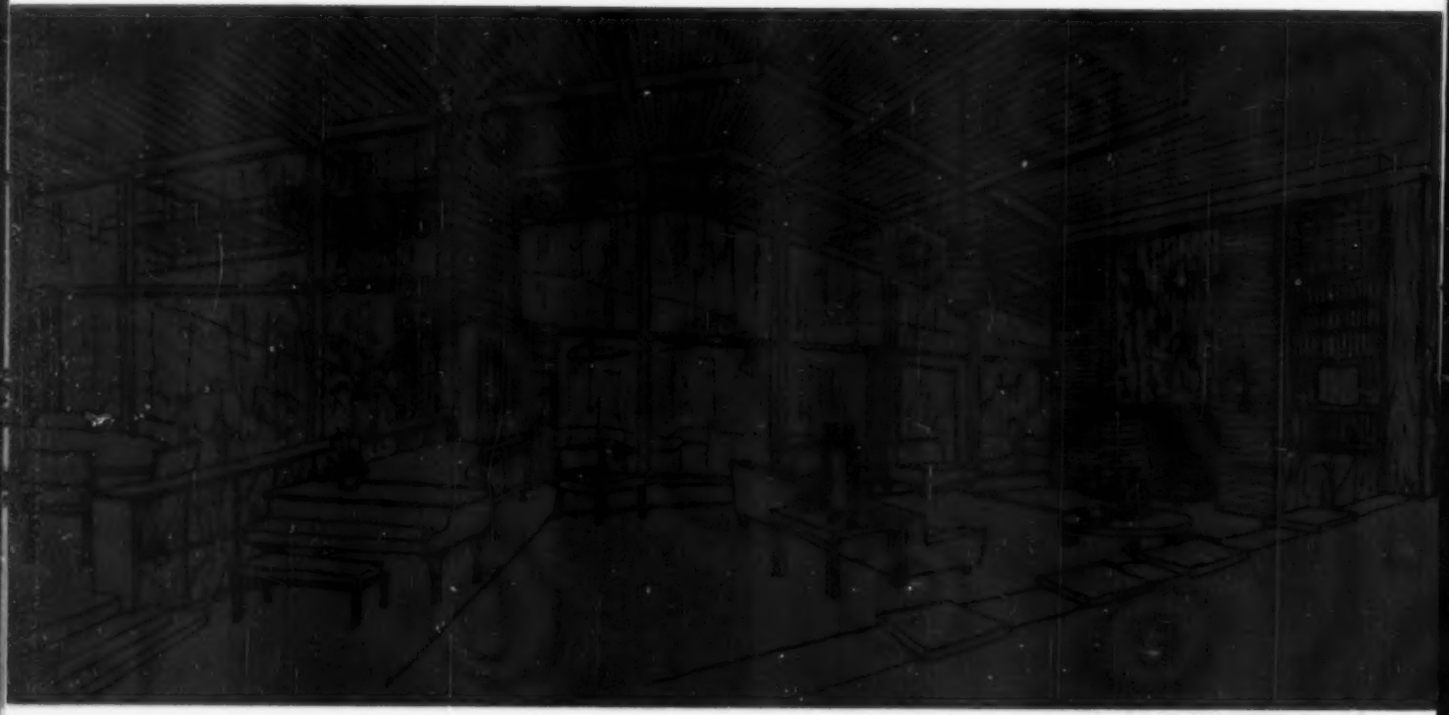
Page Beauchamp

residential interiors

Plans of the three residential projects in this section have been shown on earlier pages of the issue, but now we discuss the interior designs as far as possible, subject to their development in the final design stage. We cannot, of course, give a complete description of materials, but have described design choices as far as they have advanced. In the group are one private house and two apartment-house projects. The house is well worth consideration because of its relationship between indoors and outdoors, and its selection of color, materials, and finishes to enhance the over-all effect. Living has been planned around a central patio, yet the indoors still has the advantage of view. The apartment buildings are especially advanced in their thinking. The first has been designed to avoid the stock-look of apartment buildings and will result in a custom-look heretofore practically unknown to buildings of this type, in this price range. Every apartment will have a terrace, normally afforded only for the choice few on the front of the building. The second apartment illustrates a budget story—apartments above office space, within walking distance of the business center—convenience, compactness, space for comfortable living, all closely integrated.

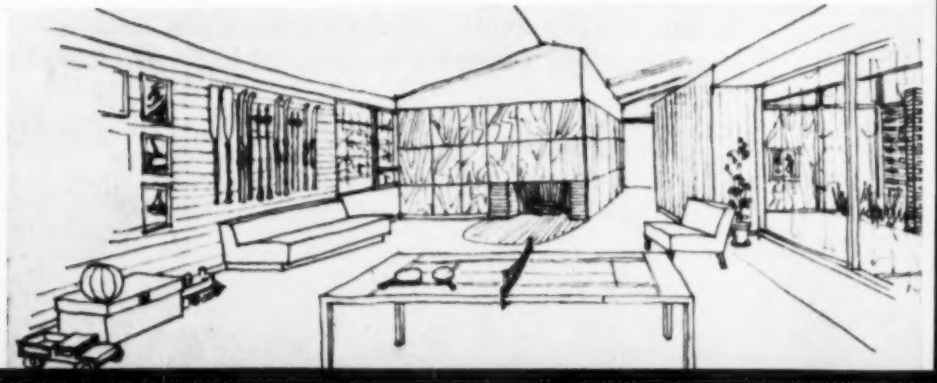
residential interiors

location | Orinda, California
architect | Henry Hill



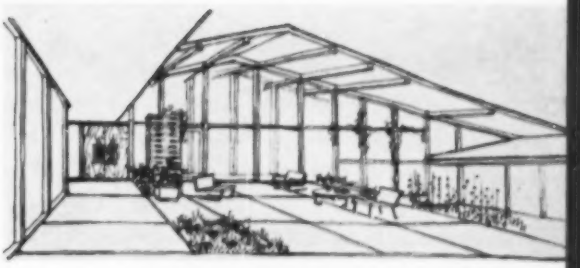
design theory: Change of levels is dictated by the site, with the entire house stepping down the slope into a valley. The main living area will have a glass wall with extensive overhang, which permits a view but eliminates glare. Overhang at dining area, however, will be perforated to admit light. The south living-room wall will be of glass, looking onto the private court around which the house centers. Warmth of color is to be emphasized in the interior, with a great reliance on the natural textures and beauty of materials in their natural state.

specified materials: Vertical and horizontal mullions, sash, and doors are to be painted a deep red, beams rust-red, and ceiling of re-



sawn pine to be stained gray-gold. Free-standing structural columns and end wall to the north will be natural redwood. Fireplace, entry, and gallery floors are planned in Roman brick, while living and dining room floors will be cork on concrete. Red birch is to be used on all casework.

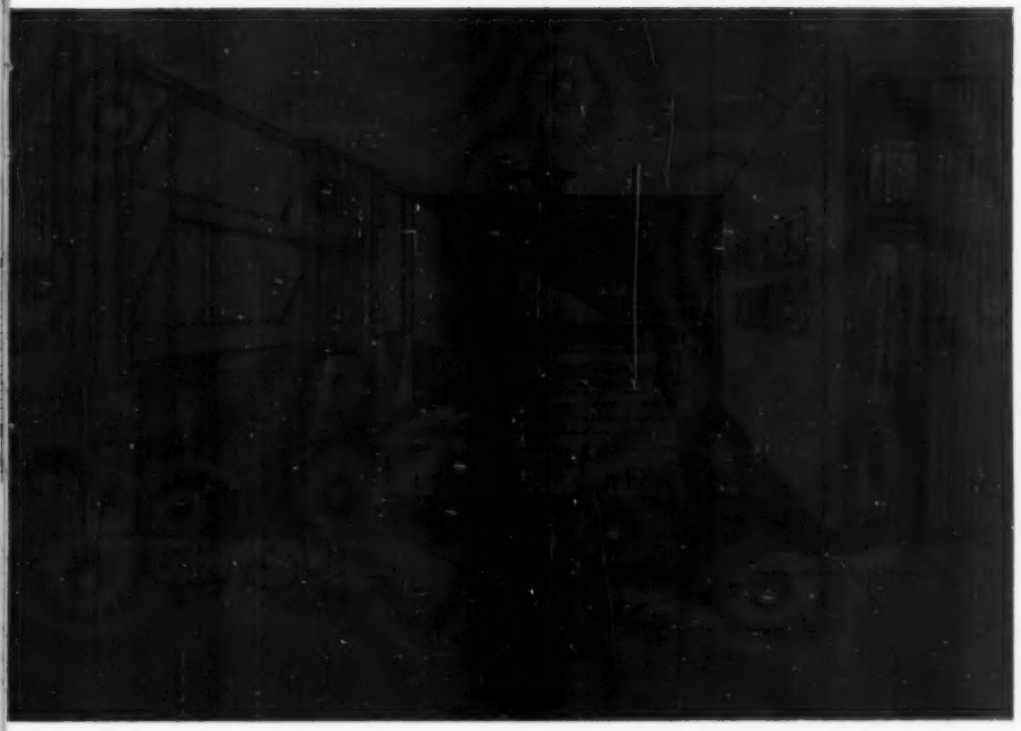
Interior Studies: Henry Hill



residential interiors

location | North Kansas City, Missouri

architects | Bertrand Goldberg Associates



design theory: Planned to express the freedom of planning and communication with outdoor living found in single-unit residential construction, each apartment of this housing project will have a terrace larger than the living room, exposed to the out-of-doors. Taking advantage of the volume of materials needed because of the size of the project, specially designed details were possible, without being prohibitive pricewise. Unbroken lines were accomplished for all wall areas by incorporating doors, windows, and cabinets in a complete floor-to-ceiling design, eliminating soffits and wall areas over doors and windows.

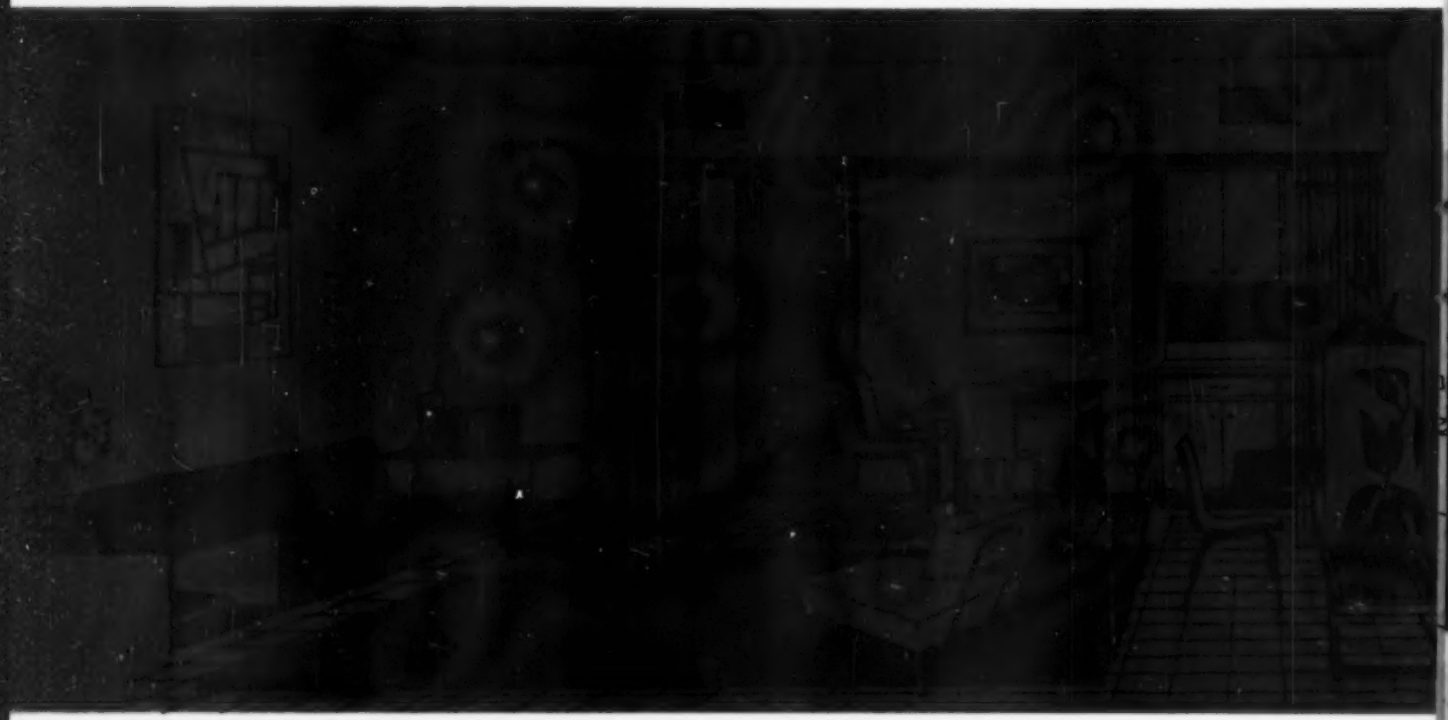
specified materials: Exterior walls will be precast-concrete panels, with aluminum sash on the window side. Sash will be left unpainted on both sides. Terraces will have concrete floors and redwood louvers. Floors are to be light-colored asphalt tile in the apartments, and wall colors will change with materials; *i.e.*, concrete panels may join a mahogany-plywood wall or a wallpapered area.

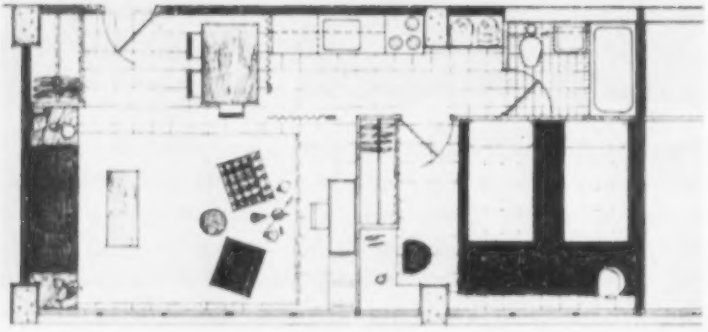
Interior Studies: John Macsai

residential interiors

location | Memphis, Tennessee

architects | A. L. Aydelott & Associates

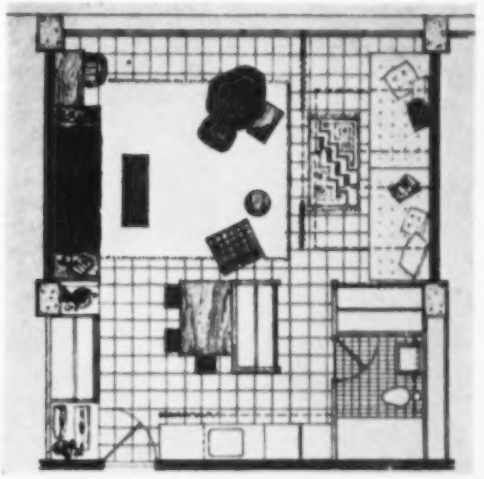




design theory: Designed to afford young married couples and single white-collar workers living space within walking distance of the business center of the city, these will be one-bedroom efficiency apartments or combination living-bedroom apartments in an apartment, office, and garage building. Office space will fill the lower floors, with the residential section beginning at the sixth floor. This affords maximum view and separation from the activity of lower floors. Actually, at the hour when most of the tenants return to their apartments the normal business day will be over. But, of course, the higher floors will be

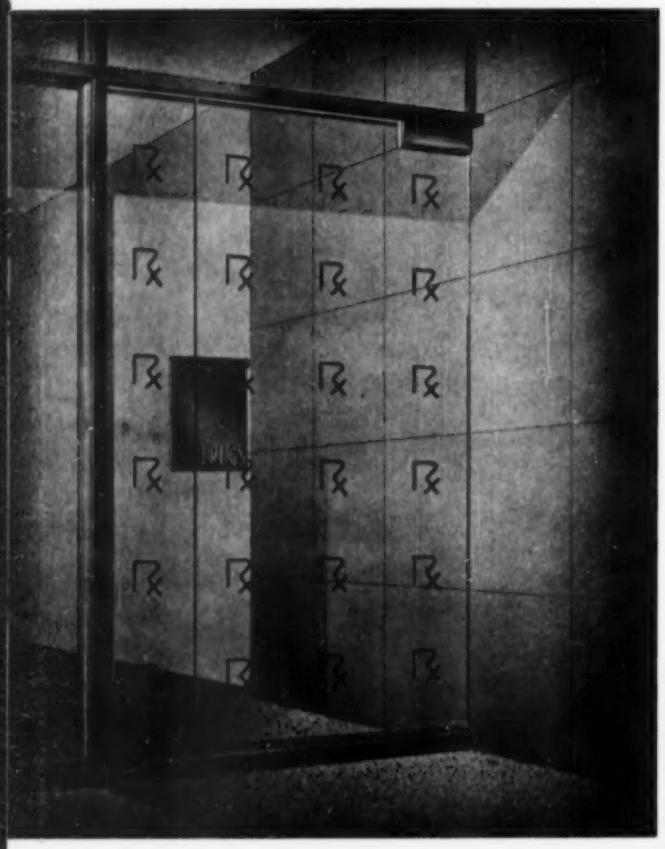
much more desirable. To protect this aspect as far as possible, the owners of the building also own the adjacent property on the North side, where new buildings will be subject to control of height and design character.

materials: This project is still so much in the design stage that materials have not yet been selected. *Interior Studies: A. L. Aydelott*



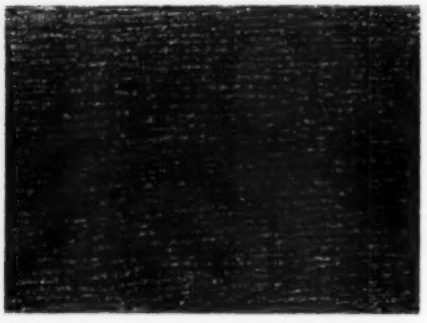
p/a interior design products

Domelight: #286 Series/ two domes with light between/ canopy, stem, and top of dome in shadow gray finish/ perforated metal bottom shield in flat finish/ designed by Harry Gitlin/ **retail:** $40.50 (17" diameter); $49.50 (24" diameter); $64.50 (30" diameter); $72 (36" diameter)/ **Stamford Metal Specialty Co., Inc., 429 Broadway, New York 12, N. Y.**



Tempered Glass for Doors: "Herculite"/ may be permanently decorated with fired ceramic colors or by sandblasting/ nonsolarizing, glare-reducing, compatible with greenish Solex heat-absorbing glass/ Pittsburgh Plate Glass Company, 632 Duquesne Way, Pittsburgh 22, Pa.

Plastic Fabric: "Glen Tweed"/ elastic Boltaflex supported plastic and 12-gage all-plastic Boltaflex/ lime, lemon, toast, cherry red, charcoal, dark green, and turquoise colors/ textured, fabric-like appearance/ Bolta Products Sales, Inc., 151 Canal St., Lawrence, Mass.



Hand-Screened Wallpaper and Shower Curtain: custom-designed/ leather-impregnated wallpaper with kidskin grain and Pyroxalin coating/ matching shower curtain in faille or taffeta/ may be produced in any color on variety of backgrounds/ **Sherle Wagner, 123 E. 57 St., New York, N. Y.**

The Gold Seal Nairn Inlaid Linoleum that makes every room look bigger for the money

"Jackstraw"
TRADE-MARK

"Jackstraw" pattern shown No. K658. Curtains by Riverdale. VinylTop No. 3000. Congowall No. W36.

Here's the trick to "Jackstraw" . . . color strips that draw your eye across the floor to make rooms look bigger.

Ten color combinations suggest limitless color schemes for every room. Colors are clear all the way through.

"Jackstraw" protects you and your customers with the famous Gold Seal Guarantee of satisfaction or your money back.

What's the first thing a prospective buyer looks for in a house? Big, airy, spacious rooms. Give him a big, airy, spacious *look* and you add hundreds of dollars to the value of the house. Specify "Jackstraw" Gold Seal Inlaid Linoleum. Its colorful little Jackstraws draw your eye across the floor . . . make every room look bigger and wider. Its ruggedness and fine quality promise long life. Its resiliency practically eliminates clatter. It's *known* from continuous national advertising. And it's the flooring customers go into stores to buy for themselves! The next time you want to "open up" rooms specify "Jackstraw" Gold Seal Inlaid Linoleum. Available by the yard or in nine-inch tiles precisely cut for easy installation.

GOLD SEAL

Floors and Walls

CONGOLEUM-NAIRN INC.
Kearny, N. J.

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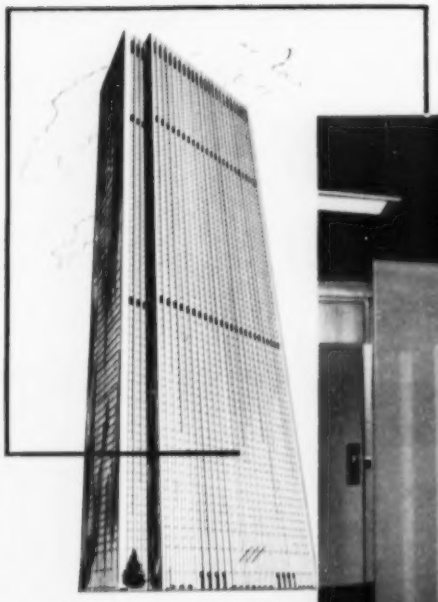
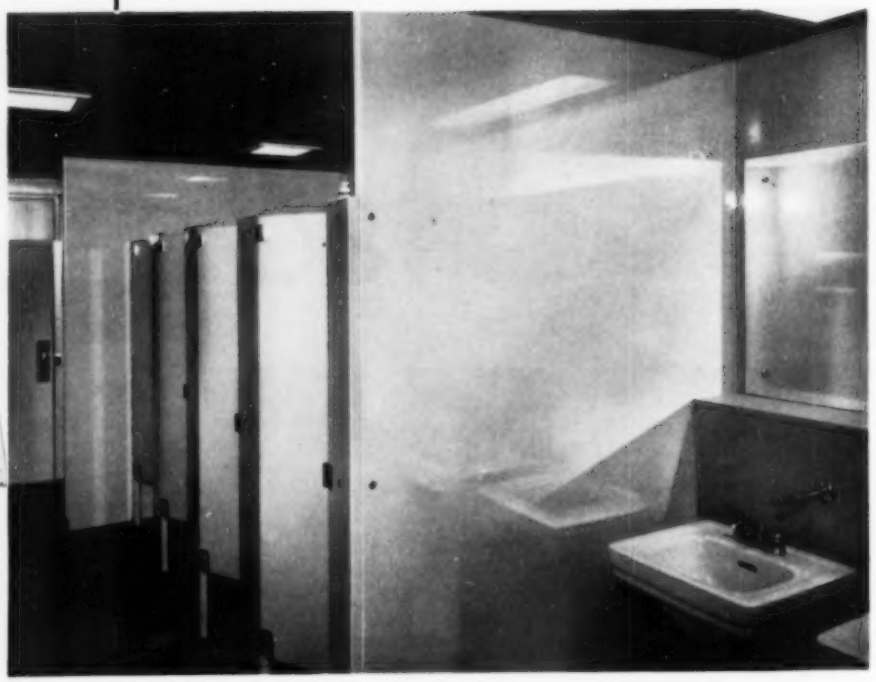


Mellon-U.S. Steel Building

This truly modern office building in Pittsburgh, Pennsylvania, was designed by W. K. Harrison, M. Abramovitz, New York, N. Y., and W. Cocken, Pittsburgh, Pennsylvania.



Washrooms of another notable building finished in Carrara Glass

● Beautiful and durable Carrara Structural Glass has long been the first choice of leading architects for walls, stiles and partitions in restrooms in the country's outstanding buildings.

They like Carrara's smooth, gleaming surface that is mechanically ground and polished to an unusually high degree of lustre. They appreciate its imperviousness, its ability to retain this beauty, even after many years of exposure to steam, water, acids, soaps and cleaning compounds.

These foremost architects know that when they specify Carrara Structural Glass, they are giving their clients a wall material that is sanitary and easy to keep clean. Because Carrara is installed in large sections, there are fewer joints and crevices to catch dust and dirt. Architects also appreciate Carrara's versatility and its ten glowing colors which make it adaptable to any number of design possibilities.

Additional material on Carrara is available from Pittsburgh Plate Glass Company, Dept. 4124, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.

Carrara ... the quality structural glass

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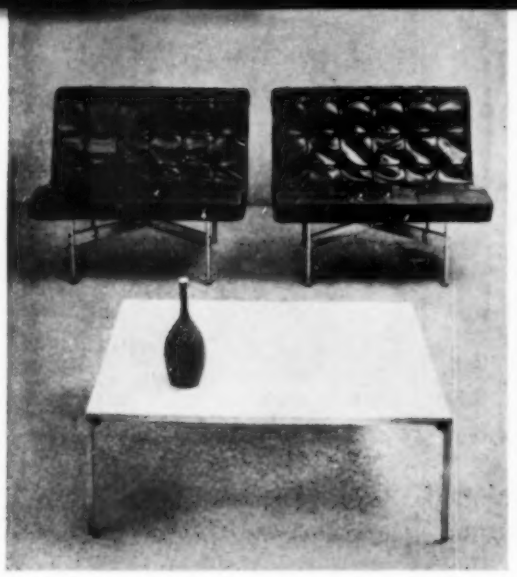
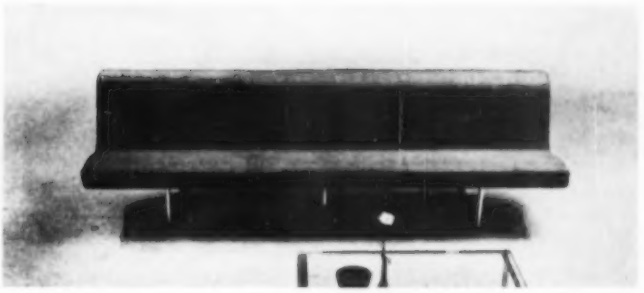
PITTSBURGH PLATE GLASS COMPANY

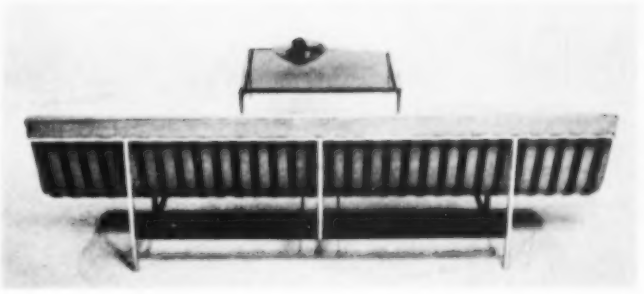
IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED



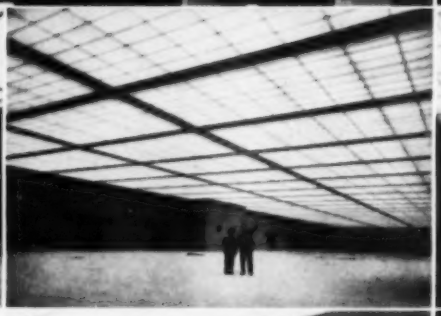
furniture design theory: "Because we believe that architecture conditions the equipment it contains, we sought furniture that would work within a way of building, which would not complement or compete but in a sense continue the program of lines and planes and function as structural elements of the whole. It is man who is the true complement of such creations, and it is he who moves importantly among them. What has been decisive here is the will to work through to a way of beauty usefully conceived in essential structure, and intrinsically materialized." A statement by William Katavolos, Ross Littell, and Douglas Kelley, Designers for Laverne.



Sofa: #7/FC/ foam rubber, fabric upholstered/ chrome-plated steel legs/ black baked-enamel frame/ 96" long/ **retail:** $850, in muslin. **Lounge Chair:** #5/LC/ foam rubber, brown or tan calfskin upholstery/ chrome-plated frame/ **retail:** $485. **Side Chair:** #1/LC/ saddle leather, chrome-plated steel legs/ black baked enamel X/ **retail:** $195/ #3/LC/ three-legged/ **retail:** $135. **Table:** #10/M/ Carrara marble/ steel brass-plated or chrome-plated legs/ designed by William Katavolos, Ross Littell, and Douglas Kelley/ Laverne, 160 E. 57 St., New York 22, N. Y.



when the finest in lighting is specified...



Installations of Smithcraft Area Illumination the country over vary greatly as to size, pattern, shielding, periphery and shielding. And it's this *flexibility of design* that makes this advanced overall lighting system an important new architectural concept. All Smithcraft Area Illumination installations have these things in common: superb quality of illumination; functional integration with the building structure; ease and efficiency of installation and maintenance.

Reading from left to right, starting at top:

The Mennen Company, Morristown, New Jersey
Owens-Corning Fiberglas Corp., Ashton, Rhode Island
Ford Motor Company, Dearborn, Michigan
Melbourne National Bank, Melbourne, Florida
Niagara Mohawk Power Corp., Syracuse, New York
Rawding Electric Company,
Beaver Falls, Pennsylvania
Texas Eastern Building, Shreveport, Louisiana
Mount Healthy-Saving and Loan Company,
Mt. Healthy, Ohio
Van Huffel Tube Corporation, Warren, Ohio
Florida Power and Light Company, Sanford, Florida

smithcraft **area** *illumination*

Smithcraft
LIGHTING DIVISION
CHELSEA 50, MASSACHUSETTS

p/a interior design products

Chair: #6X/ natural woven seat/ Parkerized wrought-metal base, painted black/ **retail:** $25.90/ **Tropical Sun Company, 120 S. Raymond Ave., Pasadena, Calif.**

Chair: #3000/ reversible tapered tie-on cushion, 18" by 15", and slip-on back cover available in weather-proof fabric/ black, brass, or chrome finish/ designed by John J. Keal/ **Pacific Iron Products, 1150 E. Pico Blvd., Los Angeles 21, Calif.**

Piano: "Centenary Grand"/ natural-finish mahogany, satin-finish brass ferules/ 5'7" long/ designed by Walter Dorwin Teague/ **retail:** $3375 with bench/ **Steinway & Sons, 109 W. 57 St., New York, N. Y.**

Sofa: #5322/ 4" molded foam rubber cushions/ natural maple, walnut, mahogany, or black enamel finish/ also available in one or two seating units/ designed by Joe Atkinson/ **retail:** $320/ **Thonet Industries Inc., One Park Ave., New York, N. Y.**

product announcements continued on page 152

p/a interior design products

Showroom for Architects and Contract Builders: Located in a special section of the Congoleum-Nairn, Inc., showroom on the 13th floor of the Merchandise Mart in Chicago, is a display of inlaid linoleum, asphalt and rubber tile, vinyl inlaid and counter-top, Marine Deck tile and static-conductive linoleum. Uses and correct installation are illustrated. **Congoleum-Nairn, Inc., 195 Belgrove Dr., Kearny, N. J.**

Home and Small Apartment Incinerator: "Disposall No. 4-SA" has improved timing controls which may be set from ten minutes to two hours. A built-in safety device automatically shuts off the gas in case of a flame failure. Consumes three bushels of waste at one time. Measurements: 43" high, 21" wide, 21" deep, door is 12" x 14". **Joseph Goder Incinerators, 5121 N. Ravenswood, Chicago 40, Ill.**

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A full size mortising template is included with every pair of Soss Hinges. This template enables any good carpenter to install Soss Hinges quickly and efficiently.
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Specifications for Soss Hinge No. 218. For other sizes and adaptations send for Free Blue Print Catalogue today—
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Loudspeaker System: A newly designed Georgian cabinet houses an advanced high-fidelity integrated 4-way producer, which may be set in a corner of a room. All frequencies are handled to achieve the quality of music as originally produced. **Electro-Voice, Inc., Buchanan, Mich.**

Newly Decorated and Enlarged Showroom. Variety of platform frames, foam rubber seats, and bolsters are shown here. **Limpus Exclusives Furniture, 428 E. 75 St., New York, N. Y.**

Rayon and Fiber Carpet: "Waitrend" is now available in six new colors in 16 standard sizes or custom sizes. It may be pieced with tape, without the seam showing. Carpet 9' x 12' **retail: $43.95.** New "Waicrest" carpet 9' x 12' of kraft fiber **retail: $21.95. Waite Carpet Co., Oshkosh, Wis.**

Vinyl Wall Covering: "Bolta-Wall," a vinyl sheet laminated to a rubber saturated backing is now classified as a fire-retardant material, according to Federal Specification. **Bolta Products Sales, Inc., 151 Canal St., Lawrence, Mass.**

New Color Range: A major change has been made in the Formica color and pattern range. A market research and restyling was done by Raymond Loewy Associates. **The Formica Company, 101 Park Ave., New York, N. Y.**

"Art in the Office"; A permanent display has been added to show the inter-relation of furnishings, paintings, and sculpture in an executive's office, designed by Edward Wormley. **The Downtown Gallery, 32 E. 51 St., New York, N. Y.**

Plastic Laminated Bathroom Unit: "Cadet"/ 31"-long cabinet combines clothes hamper and cabinet with basin in one unit. **Regal Cabinet Corp., 92 Third St., Brooklyn 31, N. Y.**

Lighting Device for Paintings: "Lumiframe" is a picture frame with the illumination incorporated to eliminate the necessity for a separate lighting fixture. Lighting may be varied by means of a three-way switch, and enhances the painting because the light is near enough to the painting to present color and texture properly. **Retail:** $60 for a canvas 16" x 20". **Lightolier, Inc., 11 East 36 St., New York, N. Y.**

Room Air Conditioners: "Compact" and "Custom"/ 1/3 and 1/2 h.p. units which may be installed in thirty minutes; 1/2 and 3/4 h.p. units or 1 h.p. unit with concealed push-button controls. Deluxe models available with thermostats. Have thermal and acoustical insulation. **Retail:** $199.95, $279.95, $351.95, and $414.95. **Quiet Kool Corp., 46 Oliver St., Newark, N. J.**

Extruded-Aluminum Backsplash Assembly: "Chromedge Surefit Backsplash" bridges from cabinet to wall even with irregularities, because unit combines back panel, cove trim, and cap molding. Available in 8, 10, and 12 foot lengths. **The B & T Metals Company, 425 W. Town St., Columbus, Ohio.**

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Contractor: 3-AAA Builders, Inc.

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"Quality-Approved" aluminum windows are available through many manufacturers in sizes and styles (double-hung, casement, projected, and awning) to fit any design treatment. Only windows that have been tested by the Pittsburgh Testing Laboratory and approved for quality of materials, construction, strength of sections, and minimum air infiltration are permitted to carry the "Quality-Approved" Seal. For your protection and full satisfaction, insist on "Quality-Approved" windows when you specify.

For a copy of our latest Window Specifications Book, and names of approved manufacturers, consult Sweet's Architectural Catalog (Section 16a/ALU), or write direct to Dept. PA-1.

Aluminum Window Manufacturers Association

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This versatility plus fast erection lowers both design and erection time for the owner.

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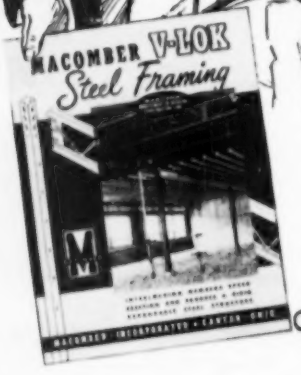

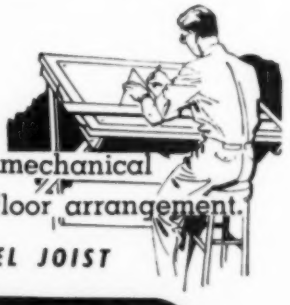

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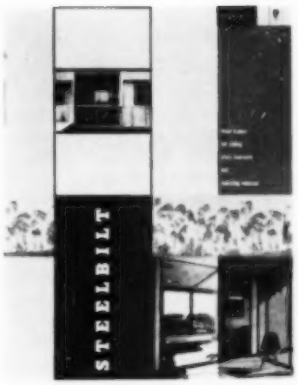

3-54. Steel Frames for Sliding Glass Doorwalls and Matching Windows, 10-p. brochure providing technical data on sliding glass doorwalls and horizontal sliding windows, including construction details of doorwall types, basic models and sizes, description of various components, 3" scale installation details. Specifications, photos showing installations of glass curtain-wall system. Steelbilt, Inc., 18001 S. Figueroa, Gardena, Calif.

★ *Editors' Note: Items starred are particularly noteworthy, due to immediate and widespread interest in their contents, to the conciseness and clarity with which information is presented, to announcement of a new, important product, or to some other factor which makes them especially valuable.*

air and temperature control

1-62. Swartwout Airmover (AM-1), 8-p. bulletin discussing construction features and installation of 22-gage-steel gravity roof ventilators. Units, adaptable to flat, slope, and peak roofs and in conjunction with skylights or monitors, measure 32" high. Cutaway drawing of unit, capacities, weights, drawings of damper operation, photos of installations, suggested standard specifications. The Swartwout Co., 18511 Euclid Ave., Cleveland 12, Ohio.

1-63. Dravo Gas-Fired Unit Heaters, AIA 30-C-93 (543), 6-p. folder illustrating new line of suspended space heaters for use with any type of gas fuel. Specification data with dimensions and capacities of both propeller fan and blower-type units. Information on commercial and industrial applications for heating, ventilating, and process drying, either with or without ductwork. Photos, drawings, charts. Dravo Corp., 5 and Liberty Aves., Pittsburgh 22, Pa.

1-64. Halstead & Mitchell Residential Cooling Towers (WT-582), 4-p. booklet describing cooling towers, ranging from 2 through 15 tons, for air-conditioning installations in homes and small buildings. Cutaway drawing with detailed information on component parts, diagrams, dimensions and pipe sizes for various models. Halstead & Mitchell, Bessemer Bldg., Pittsburgh 22, Pa.

1-65. Lima Diffusers and Registers, AIA 30-J (LRC-53), 18-p. catalog covering line of air control equipment, including floor, wall, and ceiling diffusers, registers, sidewall grills, and floor and baseboard faces. Photos of units, features and dimensions of each, photos of residential installations. The Lima Register Co., Lima, Ohio.

construction

2-64. Malarkey Plywoods and Doors, AIA 23-L and 19-E-1, 62-p. brochure in color giving physical properties and construction data for plywood panels of fir, redwood, birch, walnut, and oak veneers. Suggested finishing systems, specifications. Information on panel and flush plywood doors, including dimensions, glass sizes, and specifications. Photos of installations, closeups of various plywoods. M & M Wood Working Co., 2301 N. Columbia Blvd., Portland 17, Ore.

Two booklets giving information on availability of foreign and domestic marbles and suggesting uses of marble in homes. Approximate color ranges, classifications for soundness, color photos showing several applications of marble in kitchens, baths, and living rooms. Marble Institute of America, Inc., 108 Forster Ave., Mt. Vernon, N. Y.

2-65. Marble Forecast, AIA 22-A

2-66. Marble for the Home, AIA 22-A

2-67. Industrial Corrugated Roofing and Siding, AIA 12-C (BP-735), 24-p. brochure on corrugated-aluminum roofing and siding for industrial, commercial, and public buildings; available in standard lengths from 5 to 12 ft long in 6 in. increments. Advantages, physical dimensions, recommended maximum spans for various loadings, illustrated installation data including curved sheet applications, typical flashing details, accessories, specifications. Reynolds Metals Co., Building Products Div., Louisville 1, Ky.

2-68. Stressteel Tensioning Units, AIA 4-E-12 (G-90), 28-p. manual providing information on high-strength tensioning unit for use in prestressed-concrete construction and for strengthening and repairing existing steel and concrete structures. Advantages over conventional reinforcement, applications, design data, list of end anchorage components, specifications, construction procedures. Republic Steel Corp., Truscon Steel Div., 1300 Albert St., Youngstown 1, Ohio.

Two 8-p. brochures containing general information and specification data on gray and white masonry cement. Salient features, proportions and mixing, cubic feet of mortar required of each. Medusa Portland Cement Co., 1000 Midland Bldg., Cleveland 15, Ohio:

2-69. Stoneset White Masonry Cement, AIA 3-A-9

2-70. Brikset Masonry Cement, AIA 3-A-9

doors and windows

3-55. Aluminum Windows: Specifications (1954), 24-p. booklet giving short form and master specifications for double-hung casement, projected, and awning windows made of aluminum. Applications, standard sizes, photos of installations, association membership. Aluminum Window Manufacturers Assn., 74 Trinity Pl., New York 6, N. Y.

3-56. Russwin Builders' Hardware Catalog, 28-p. catalog covering line of door hardware which includes standard-duty locksets, light-duty locks and latches, cylinder handle sets, residential door ac-

(Continued on page 157)

PROGRESSIVE ARCHITECTURE, 330 W. 42nd Street, New York 36, N. Y. I should like a copy of each piece of Manufacturers' Literature circled.

1-62	1-63	1-64	1-65
2-64	2-65	2-66	2-67
2-68	2-69	2-70	3-54
3-55	3-56	3-57	3-58
3-59	4-42	4-43	4-44
4-45	4-46	4-47	6-23
6-24	6-25	7-20	8-36
9-23	9-24	9-25	

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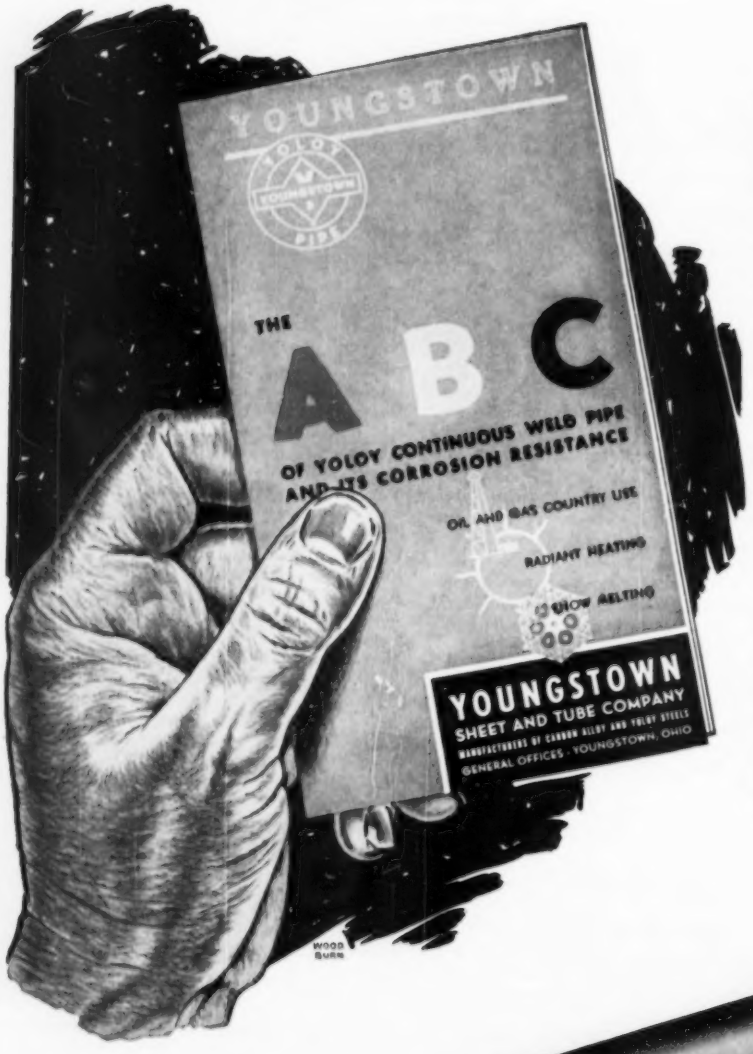

● Here is the up-to-date story of Yoloy Continuous Weld Pipe—a remarkable low alloy steel whose nickel-copper content gives it unique ability to withstand corrosion, abrasion and shock. These outstanding advantages combined with high strength, ductility and weldability make Yoloy Pipe an excellent selection.

Proved by 18 years of satisfactory performance, Yoloy is highly recommended by users in such service as radiant heating, snow melting, gas line gathering, brine lines and other industrial piping.

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General Offices — Youngstown 1, Ohio

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COLD FINISHED CARBON AND ALLOY BARS · ELECTROLYTIC TIN PLATE · COKE TIN PLATE · WIRE · PIPE AND TUBULAR PRODUCTS · CONDUIT · RODS · SHEETS · PLATES · BARS · RAILROAD TRACK SPIKES.

(Continued from page 153)

cessories, store-door hardware, tubular cylinder locks, and liquid-surface door closers. Construction details, dimensions, and illustrations of individual hardware. The American Hardware Corp., Russell & Erwin Div., New Britain, Conn.

3-57. Columbia for Maximum Light Control, 16-p. booklet describing Venetian blinds with either steel or aluminum slats, window shades, and lattice shades of basswood. Blind sizes, standard equipment, typical installations, description of three types of blind operation, antisway equipment, special installations and applications. Specifications, photos. The Columbia Mills Inc., 428 S. Warren St., Syracuse 2, N. Y.

3-58. Cookson Rolling Doors (B-301), 12-p. catalog covering line of rolling doors for warehouses, garages, factories, and other commercial and industrial applications. Line includes steel service, fire, and specialty doors, and aluminum counter doors. Drawings of 12 basic door types; charts for selection of proper gage and type of slats, guide type, power units, and other components; specifications; and installation photos. Cookson Co., 1525 Cortland Ave., San Francisco, Calif.

3-59. Grant Sliding Door Framing Data, AIA 27-A, 16-p. booklet containing framing details for passageway (pocket) and biparting sliding doors and wardrobe (by-passing) sliding doors of various weights and thicknesses. Specifications for each. Grant Pulley & Hardware Corp., 31-85 Whitestone Pkwy., Flushing, N. Y.

electrical equipment, lighting

4-42. Authentic Reproductions of 18th Century Lighting Fixtures, AIA 31-F-23, 4-p. folder illustrating reproductions of lighting fixtures used in restored buildings in Colonial Williamsburg, including sconces, lanterns, and chandeliers. All fixtures adapted for electricity and are U. L. approved. Materials and dimensions. The Edwd. F. Caldwell Co., 101 Park Ave., New York 17, N. Y.

4-43. Curtis 6000 Industrial Series, AIA 31-F-2 (2420), 4-p. bulletin describing semidirect fluorescent luminaires for use with 4', 5', and 8' lamps. Information on reflectors, wireway, channel cover and end plates, wiring, methods of suspension, starter-type, rapid-start, and slimline lamps. Plan view of knockout locations, photos, brightness data, coefficients of utilization. Curtis Lighting, Inc., 6135 W. 65 St., Chicago 38, Ill.

4-44. Peerlite by Guth, AIA 31-F-23 (911), 8-p. booklet giving photometric and other data on new air-cooled fluorescent fixtures for conventional, rapid-start, and slimline lamps. Information on construction, finish, mounting, and lamps; installation details; coefficients and foot-candle data; continuous row listings. Drawings and charts. Edwin F. Guth Co., 2615 Washington Blvd., St. Louis 3, Mo.

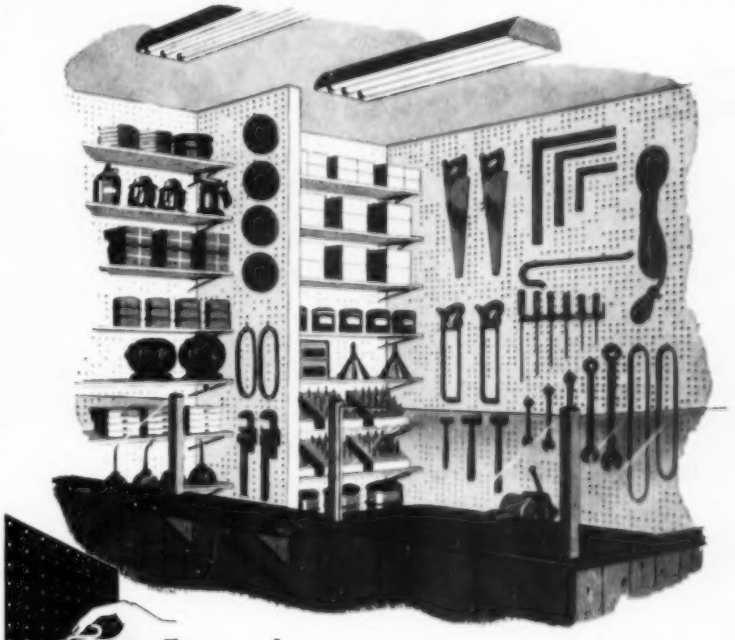
4-45. Design Data and Laboratory Tests on Use of the Plenum Above Acusti-Luminous Ceilings, 16-p. booklet giving technical information on use of soffit above diffuser in luminous ceiling installations as air conditioning plenum. Description of such elements as pressure loss, flow pattern, heat transfer, plenum supply, and plenum exhaust; supplemented by graphs and illustrations. Additional material on sound absorption and acoustical characteristics of luminous ceilings. Luminous Ceilings, Inc., 2506 W. North Ave., Chicago 47, Ill.

Two brochures describing contemporary lighting fixtures for residential, commercial, and display purposes. First gives information on available surface units and portable lamps; second discusses recess fixtures, exit and aisle lights, and new frame which adapts fixtures for use where acoustical tile ceiling is specified. Sizes, types, framing-in details, illustrations.

(Continued on page 156)

PEG-BOARD®

panels and fixtures put **WORKING WALLS** in your **FACTORY** designs



over 60 interchangeable hanging fixtures

"PEG-BOARD" is the Reg. T.M. of the B. B. Butler Mfg. Co., Inc. used to identify its products

In the tool room, reception room, or on the production line "PEG-BOARD" equipment provides extra space and efficiency by giving unlimited hanging area — and it's so versatile—any arrangement may be changed in seconds so that a wall can carry shelves one minute and file folders the next. "PEG-BOARD" panels are decorative, too—take paint beautifully.

WRITE for complete descriptive literature and prices.

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3150 RANDOLPH STREET • BELLWOOD, ILLINOIS

p/a manufacturers' literature

(Continued from page 157)

Prescolite Mfg. Corp., 2229 4 St., Berkeley 10, Calif.

4-46. Prescolite Surface Series and Portable Lamps, AIA 31-F-23 (S-3)

4-47. Prescolite Recessed Series, AIA 31-F-23 (R-8)

insulation (thermal, acoustical)

6-23. Carey Thermo-Bord, AIA 19-D (6197), 4-p. folder on structural and insulating unit made by bonding asbestos-cement board to both sides of specially processed, asphalt-treated insulation board. Features, U values, standard lengths, thicknesses, approximate weights per sq ft. Photos of commercial, industrial, and school installations. The Philip Carey Mfg. Co., Lockland Station, Cincinnati 15, Ohio.

6-24. Celotex Acoustical Materials, AIA 39-B (5033E), 16-p. brochure containing data on cane fiber, metal, and mineral fiber acoustical tiles, suspended ceiling assembly, and special screw-holding gypsum board tiles. Also information on perforated asbestos board and lining for ventilating and air conditioning ducts. Sizes, thicknesses, edges; sample specifications; methods of installation; photos. The Celotex Corp., 120 S. LaSalle St., Chicago 3, Ill.

6-25. Terne-Coustic, AIA 39-B, 4-p. folder describing new acoustical tile of terne-coated steel, supporting sound-absorbing blanket of woven glass, and its ceiling suspension system. Characteristics, detail drawing of access panel, suggested specifications, supension accessories, installation photo, and drawings. Tach-Fast Mfg. Co., Lonsconing, Md.

sanitation, water supply, plumbing

7-20. American Marsh Non-Clog Sewage and Sump Pumps (325-A), 10-p. booklet covering three types of pumps: vertical, wet pit single or duplex; vertical dry pit; and horizontal. Specifications for pumps and optional equipment; performance tables according to pump capacity, dimensional drawings, construction and design data, and illustrations. American-Marsh Pumps, Inc., Battle Creek, Mich.

specialized equipment

8-36. Modern Drawing and Document Reproduction (FL-36), 24-p. brochure giving information on characteristics of reproduction materials including photographic paper and film which print directly to positive, black-on-white intermediates from blueprints and other negative originals, projection papers, and processing chemicals. Materials selection chart, sheet and roll sizes, information on reproduction of tracings, opaque drawings, and blueprints. Photos. Eastman Kodak Co., Industrial Sales Div., Rochester 4, N. Y.

surfacing materials

9-23. Armstrong's Linotile (F-560), 8-p. booklet illustrating available colors and patterns in line of linoleum-tile flooring. Characteristics, photos of installations in stores and homes, data on sizes, gage, feature strips, beveled edging, and installation. Armstrong Cork Co., Lancaster, Pa.

9-24. The World's Most Beautiful Flooring (A-8116-K), 16-p. brochure describing vinyl-plastic tile and sheet flooring, counter topping, and wainscoting; rubber tile and sheet flooring. Material specifications, color charts, features, installation and maintenance data. Color photos showing installations of various materials. The Goodyear Tire & Rubber Co., Inc., Akron, Ohio.

9-25. Cocoon, AIA 24-B (922), 4-p. folder on sprayed-on vinyl-plastic coating and its application to sidewalls, roofs, in refrigerated areas, and for packaging and corrosion proofing. Information on tensile strength, elasticity, temperature and chemical resistance, adhesion, and other characteristics. Photos showing application. Protective Coatings, Inc., 807 N. Fremont Ave., Tampa 6, Fla.

Unique Beauty

Architect: A. Quincy Jones, Los Angeles, California

Cabot's Stain Wax

For traditional or contemporary design, the unique finish achieved with Cabot's Stain Wax is not only beautiful, but amazingly economical. A rich penetrating stain with a soft, lustrous wax finish, Cabot's Stain Wax is simple to apply, easy to maintain.

Architects: Lemmon and Freeth, Honolulu

variety of contemporary colors

Cabot's Stain Wax brings out the natural beauty of wood grain and texture . . . gives interesting variety to interiors. Available in modern blond shades . . . Glacier Blue, Seashore Gray, Ivory, White, or Natural. Also traditional shades . . . Maple, Mahogany, Walnut, Redwood. Can be tinted with colors in oil.

WRITE TODAY for color card

Samuel Cabot Inc.
128 Oliver Bldg., Boston 9, Mass.

cabot's stain wax

GRAHAM, ANDERSON, PROBST & WHITE, ARCHITECTS • SHERMAN OLSON, INC., CONTRACTOR • RAND McNALLY BLDG., CHICAGO

how Ceco 1-SOURCE SERVICE SAVES TIME • LABOR • MONEY

■ The cost of any structure depends partly on the way materials are handled on the job.

Here Ceco 1-Source Service offers special advantages to the architect-engineer-contractor team in helping make paper savings truly realistic by integrated delivery.

One responsibility for providing concrete joist steelform service and reinforcing steel, for delivering steel joists, roof deck and metal lath, assures their arrival on the job-site as desired by the architect, just as needed by the contractor. And when there are requirements for Ceco metal windows, screens, and hollow metal doors, these products also are scheduled for arrival when needed. Result: Costly storage is avoided, material handling reduced—and work goes ahead faster.

Look at any job where multiple Ceco Products are used and you'll see neat "ground keeping," a significant sign of low material handling costs. That's just one example of how Ceco 1-Source Service can save for you. If you consult our people in the pre-planning stage, product specialists will assist you in the application of Ceco Products so you can realize further savings.

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In construction products ***CECO ENGINEERING*** *makes the big difference*

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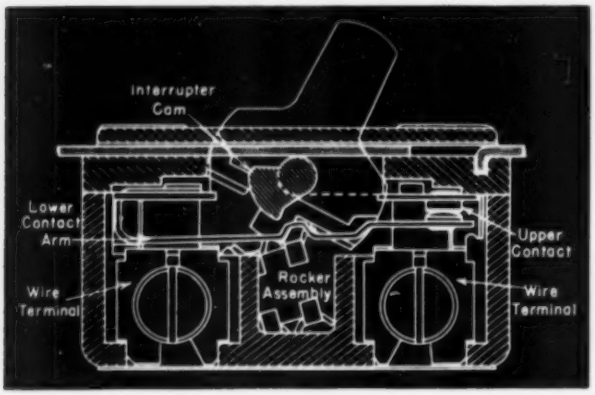
Offices, warehouses and fabricating plants in principal cities.

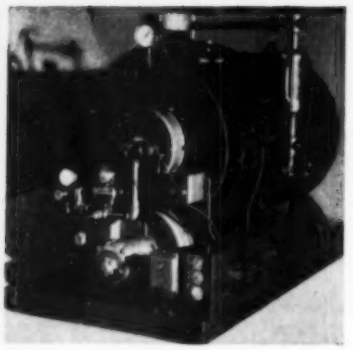
General Offices: 5601 W. 26th St., Chicago 50, Illinois

p/a products

"Packaged unit" heavy-duty flooring (right) *combines for the first time a heavy steel mesh and special filler as a complete unit for surfacing floors subjected to extra-tough abuse. This flooring meets the rugged requirements of modern industrial production and materials-handling problems and has been purposely engineered to combat floor destruction caused by tons of heavy rolling traffic. Called "Steel-Rock" this product may be applied over new or old surfaces of wood or concrete, inside or outside, and at a depth varying from 3/8 to 1 in. depending upon job requirements. United Laboratories, Inc., 16801 Euclid Avenue, Cleveland, Ohio.*

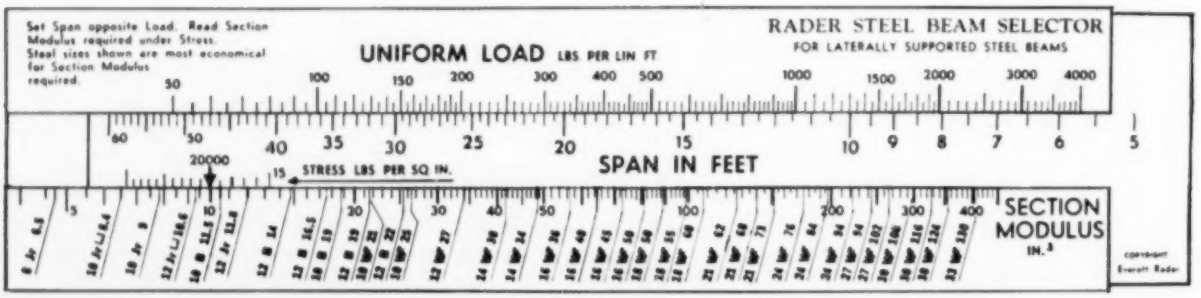


This general-purpose switch (above) *for controlling alternating-current circuits exclusively provides opportunities for broader applications, longer and better performance, and greater economy in the control of branch circuits, lighting, motor loads, and electric appliances. The Bryant Electric Company, Bridgeport 2, Conn.*



Designed primarily for metropolitan areas where floor space is limited, this steam boiler is claimed to be the smallest 50 hp unit ever manufactured (above). *This new power package takes up an area of only 20 sq ft, is only 4 ft 8¼ in. high, and since it requires no cement foundation or stack can be mounted anywhere water, fuel, and electricity are available. Cyclotherm Division, United States Radiator Corporation, Oswego, N. Y.*

This new slide rule (below), *the Rader Steel Beam Selector, will determine steel beams for uniform loads within a few seconds. (This instrument is a companion to the wood beam and girder selector reported on page 106, December 1952 P/A.) By setting the span opposite the total design load, the section modulus and the most economical steel beam required may be read under the allowable stress. The reverse side of the rule lists commonly used steel beams and their section moduli. Folded plastic rule, leatherette case, and instructions: $4. Everett Rader Company, Box 122 PA, Bowling Green Station, New York 4, N. Y.*


Set Span opposite Load. Read Section Modulus required under Stress. Steel sizes shown are most economical for Section Modulus required.
RADER STEEL BEAM SELECTOR
FOR LATERALLY SUPPORTED STEEL BEAMS
UNIFORM LOAD LBS PER LIN FT
50 100 150 200 300 400 500 1000 1500 2000 3000 4000
60 50 40 35 30 25 20 15 10 9 8 7 6 5
SPAN IN FEET
20000 15 STRESS LBS PER SQ IN.
SECTION MODULUS IN.³
copyright Everett Rader

product announcements continued on page 162

CBM Certified Ballasts are Tailored to the Tube

. . . to make your lighting dollar go farther

The heart of a fluorescent fixture is the Ballast.

Best lighting performance is assured by accurately matching ballasts to fluorescent tube requirements.

CERTIFIED BALLASTS are so matched. Built to exacting specifications designated by the Certified Ballast Manufacturers,* tested, checked and Certified by ETL, CERTIFIED BALLASTS truly are "Tailored to the Tube!"

That's why CERTIFIED BALLASTS assure:

LONG LAMP LIFE — FULL LIGHT OUTPUT
LONG BALLAST LIFE — FREEDOM FROM OVERHEATING
QUIET, TROUBLE-FREE OPERATION

And that's why, today, the large majority of fluorescent fixtures for general lighting service are equipped with CBM Certified Ballasts.

CERTIFIED BALLAST MANUFACTURERS

*Nine leading manufacturers make CBM CERTIFIED BALLASTS.

2116 KEITH BLDG., CLEVELAND 15, OHIO

p/a products

(Continued from page 140)

air and temperature control

Blower Ventilators: spun-aluminum blower ventilator for residential or commercial use available in three models. Wall exhaust type adjustable to wall thicknesses from 5⅛" to 8", can be fitted to short 6" or 8" duct. Roof type suited to bath and shower room ventilation. Both in 7", 9", and 10" sizes. Largest model available in single phase, 110-volt, 2-speed; in 220-volt, 1-speed; or three phase 1-speed, furnished with or without automatic back draft dampers. Loren Cook Co., 664 Front St., Berea, Ohio.

Air Conditioner: new unit designed for 5 or 6 room house operates in small closet-type enclosure, basement, or utility room. Heat provided by forced-air furnace with either gas or oil; cooling and dehumidification by automatic electric refrigeration system with 3-ton cooling capacity. Heating capacity with oil: 75,000 Btu/hr; with gas: 90,000 Btu/hr input. Unit enclosed in gray enameled steel cabinet. General Motors Corp., Frigidaire Div., Dayton 1, Ohio.

Transite Type B-W Gas Vent: designed specifically for recessed gas-fired wall heaters, new vent is approved by UL for 3/8" minimum clearance to combustible surfaces, permitting installation in standard wall construction without furring. Vent has "backbone" of asbestos-cement pipe, jacket of lightweight aluminum, separated by spacers extending height of vent. Two metal angles at foot attach vent to header plate of heater. Handles flue gas temperatures up to 550 F. Johns-Manville Corp., 22 E. 40 St., New York 16, N. Y.

Air Filter: new electrostatic air cleaner, used with any type of hot-air heating, destroys germs or bacteria and filters dust particles, pollen, and aerosol. Composed of mechanical filter, series of electrostatic filter plates, and power pack, mechanism is built directly into cold-air return duct of furnace. Number of filter plates determined by area requirements. Radex Corp., 2076 Elston Ave., Chicago, Ill.

construction

Texture One-Eleven: new 5/8" fir-plywood panels for interior or exterior applications have deep parallel grooves creating vertical line pattern on faces. Slightly rough, unsanded surfaces contain certain natural characteristics of wood. Each panel shiplapped on long edges so that vertical joints form groove identical with adjacent grooves in panel face. Standard 16" and 32" widths, 8' and 10' lengths, also shorter lengths. Douglas Fir Plywood Assn., Tacoma 2, Wash.

Plasteel Roof Deck: protected-metal roof deck with built-in vapor barrier for industrial buildings, particularly adaptable to those where corrosion and high humidity conditions prevail. Deck manufactured by special process that combines structural strength of steel with three protective coatings: bond coat, weather-sealed asphaltic plastic coating, and mineral mica topping. Panels are 24" wide with telescoping ends. Plasteel Products Corp., Washington, Pa.

doors and windows

Curtis Convertible Window: factory-assembled wood window unit makes possible greater freedom in planning window arrangements. Right or left swing casements, awning windows, or swing-in hopper-type sash possible from basic unit; window can be installed singly or in any desired combination of multiples. Also, combination louver unit designed to be used in conjunction with basic sash unit. Curtis Companies Inc., Clinton, Iowa.

electrical equipment, lighting

Colorbeam Reflector Lamps: expanded line of reflector lamps which eliminate

(Continued on page 164)

IN THE ENTRANCES TO

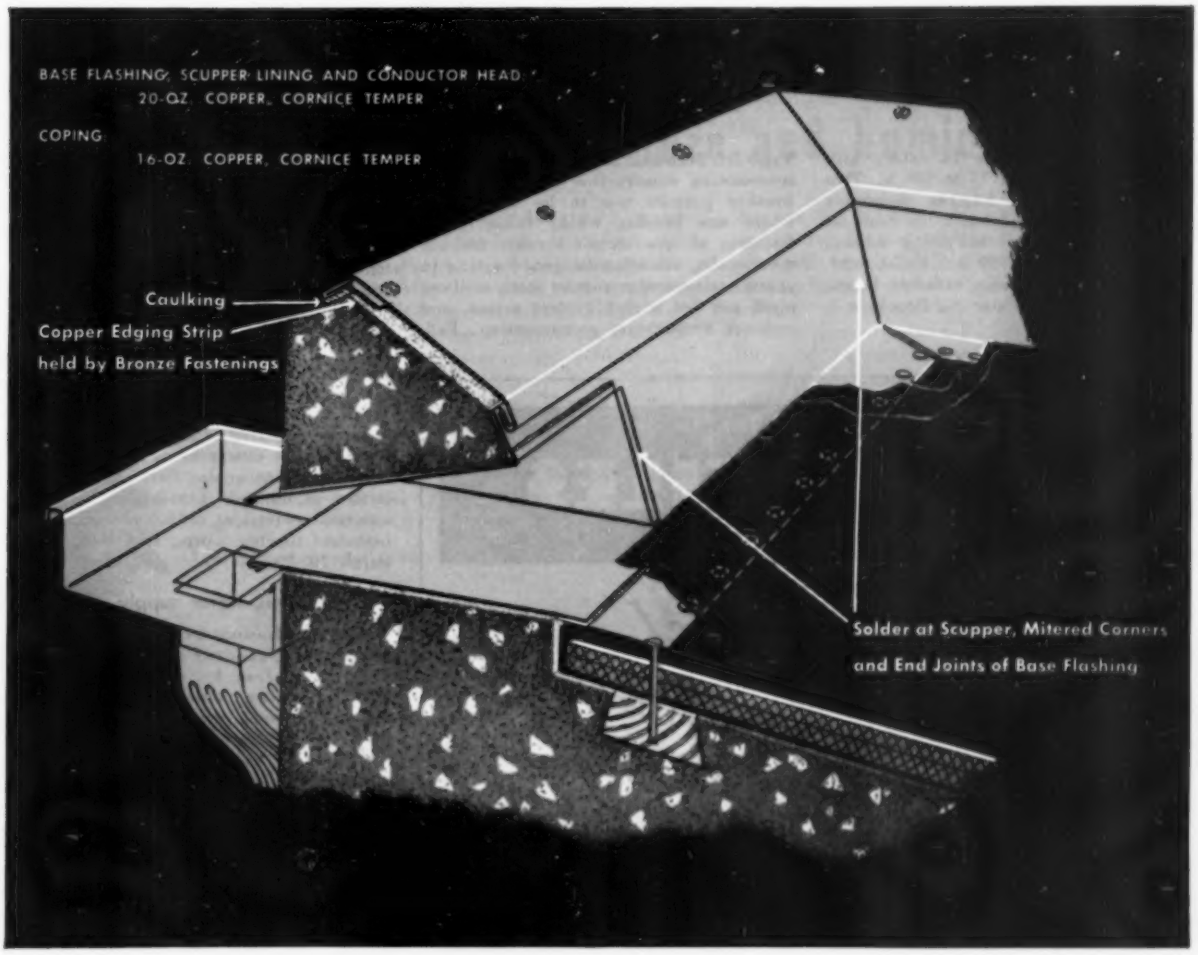
STERLING BUILDING
Houston, Texas
IRVING R. KLEIN, Architect

Ellison the BALANCED DOOR

The Door that lets TRAFFIC through QUICKLY

ELLISON BRONZE CO.
Jamestown, New York
representatives in 78 principal cities in the United States and Canada

Ellison the BALANCED DOOR



Flashing design for parapet with roof scupper

On buildings where the parapet is designed as little more than a curb and in climates where snowfall is not severe, scuppers leading to outside downspouts offer an economical method of providing for roof drainage.

This drawing shows the details of a base flashing and scupper lining secured to the roof deck. A 16-oz. copper coping, joined to the 20-oz. base flashing with a loose clinch lock, protects the vertical mortar joints of the masonry. Free-sliding, weathertight expansion joints should be installed on the copper coping at 24-ft. intervals and wherever expansion is provided for in the structure.

Do you have the FREE Anaconda Portfolio of Sheet Metal Drawings?
Each drawing shows a new or improved way to apply sheet copper. Each is printed on a separate 8½ x 11-inch page, handy for quick-reference filing. This entire series may be obtained absolutely FREE. Write today for Portfolio S to **The American Brass Company, Waterbury 20, Conn. In Canada: Anaconda American Brass Ltd., New Toronto, Ontario.**

for better sheet metal work — use

ANACONDA® copper

p/a products

(Continued from page 162)

need for filters include 14 colors with wattages ranging from 75 to 300 w. Two models suitable for interior decorative effects, one model adaptable to both interior and exterior floodlighting service. Rated average life: 2000 hr. Bulbs interchangeable with ordinary reflector lamps. Amplex Corp., 111 Water St., Brooklyn 1, N. Y.

Type NC Stab-lok Circuit Breaker: slim space-saving construction of new circuit breaker permits two to be stabbed in where one breaker would formerly fit. Features of new circuit breaker include quick-make, vibration-dampened action to guard against undue contact wear, resilient pivot pin for wiping contact action, and ambient temperature compensation. Federal Electric Products Co., 50 Paris St., Newark 5, N. J.

Dextra-Lites: new line of 17 adjustable incandescent and fluorescent lighting units designed for industrial and commercial applications. Four models have incandescent metal shade which remains comfortable to touch after hours of use with 100-w lamp. Flourescent units include desk model and units with clamp-on and bracket bases. All units have patented spring-tension socket and swivels. Swivelier Co., Inc., 43 34 St., Brooklyn 32, N. Y.

Concentric-Ring Luminaires: new fixtures for silvered-bowl incandescent lamps in ratings from 200 to 1000 w. Three vertical rings placed concentric with lamp axis shield bright neck of lamp. Light is directed by reflector in lamp base to ceiling without light source being visible at any normal viewing angle. Dirt and dust collection minimized. Luminaires have 45° universal swivels at ceiling canopy. Westinghouse Electric Corp., Box 2099, Pittsburgh 30, Pa.

sanitation, water supply, drainage

Model 101 Gasinator: improved model of automatic, gas-fired disposal unit dehydrates all refuse by constantly burning small pilot flame before refuse is eliminated. Redesigned burner has primary air holes and orifice outside refuse chamber. Two-bushel capacity; gas input: 2000 Btu/hr; dimensions: 36¼" x 24⅛" x 18½"; heat-resistant baked white or two-tone gray finish. Gasinator Mfg. Co., Cleveland 14, Ohio.

specialized equipment

Graphostat Drawing Board: portable drawing board molded of clear polystyrene plastic weighs less than 8 oz, measures 9¾" x 12¼". Four corner clamps for attaching 8½ x 11 paper recessed into plastic so that triangle or ruler can ride freely over them without interference. Horizontal and vertical straight edges are retractable. Tension clamps beneath board provide storage of triangles. The Graphostat Co., 110 Eaton Pl., East Orange, N. J.

Sun Position, Heat Gain, and Shading Data Calculator: with latitude and azimuth of building known, slide-calculator will determine sun altitude on any day, as well as relative sun-window azimuth, shadow angle, and amount of radiation transmitted through bare windows and through those provided with manufacturer's sunscreens. Calculator and one latitude slide: $2. Borg-Warner Corp., Ingersoll Products Div., 310 S. Michigan Ave., Chicago 4, Ill.

CRC Labwasher: new automatic dishwasher adapted especially for laboratory use contains special racks which accommodate over 90% of the most commonly used laboratory glassware. Glassware remains stationary while impeller swirls water upward at angle to assure distribution of water inside and over each piece in unit. Washes and dries glassware containing either oil or water soluble material. Chemical Rubber Co., Cleveland, Ohio, and Westinghouse Electric Corp., Mansfield, Ohio.

ROMANY TILES
ARE REAL TILES
Won't Fade!
Due to specially developed ROMANY Opaque Glazes, every one of the many attractive ROMANY colors is fade proof and will not be affected by light or weather conditions. This includes color tones usually susceptible to strong sunlight, as well as all the special shades exclusive with ROMANY — the Real Clay Tile.
Every Architect should have our Sample Tile Chart No. 6. It's free.
UNITED STATES QUARRY TILE CO
Member: Tile Council of America and Producers' Council, Inc.
217-G FOURTH ST., N.E., CANTON 2, OHIO

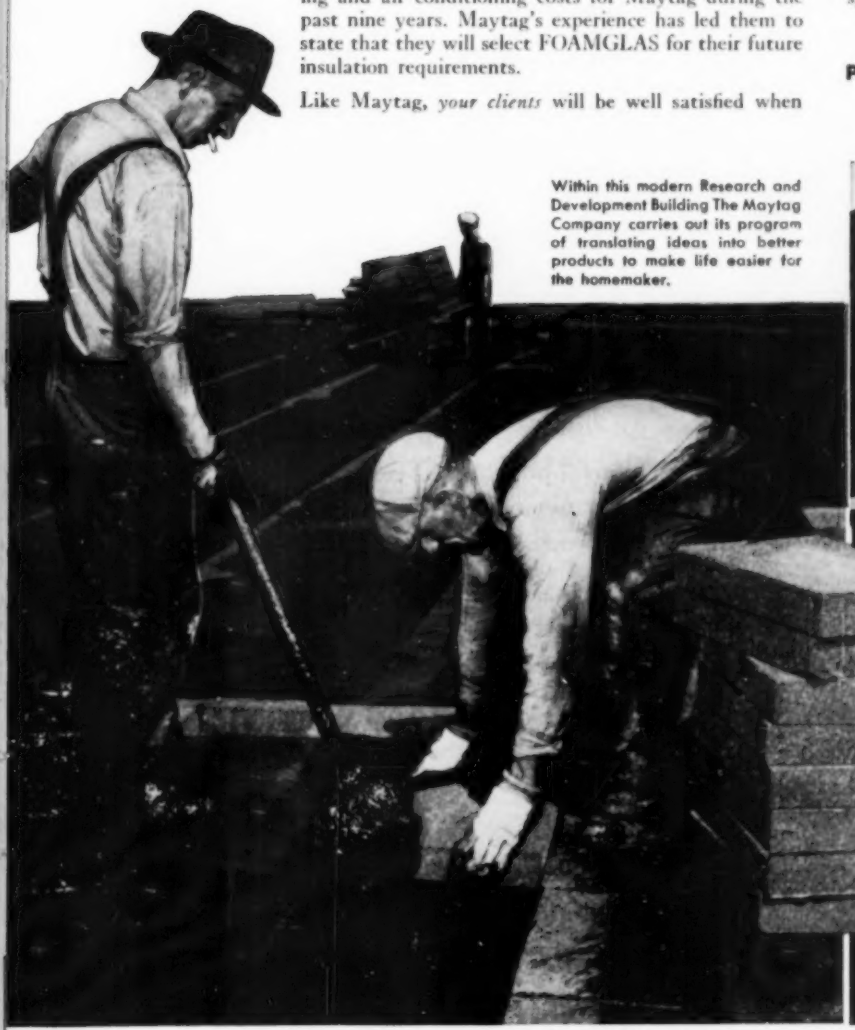
FOAMGLAS® roof insulation helps Maytag maintain accurate temperature and humidity control

FOAMGLAS roof insulation, installed on their Research and Development Building in 1944, has given outstanding insulating performance to The Maytag Company, Newton, Iowa. Maytag reports that insulating their roof with FOAMGLAS has proved an effective aid in controlling with constant efficiency the temperatures and humidities in their laboratories. FOAMGLAS does not absorb damaging moisture which can cut the efficiency of ordinary insulations. This has made FOAMGLAS a major factor in maintaining lower heating and air conditioning costs for Maytag during the past nine years. Maytag's experience has led them to state that they will select FOAMGLAS for their future insulation requirements.

Like Maytag, *your clients* will be well satisfied when you specify FOAMGLAS for the roofs, walls, floors and ceilings of their buildings. The moisture-proof sealed glass cells of FOAMGLAS assure long, constant insulating efficiency . . . its rigidity and high compressive strength provide excellent structural and load bearing characteristics . . . and FOAMGLAS is fire-proof and rot-proof. To learn how you can best use FOAMGLAS, send for our brand new booklets covering its use for normal temperature buildings, refrigerated structures, piping and equipment. Write now, indicating your specific interest, to Department AB-14 . . .

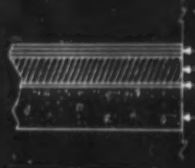
PITTSBURGH CORNING CORPORATION

One Gateway Center • Pittsburgh 22, Pa.



Within this modern Research and Development Building The Maytag Company carries out its program of translating ideas into better products to make life easier for the homemaker.

TYPICAL ROOF SECTION



Architect (Supervising):
Proudfoot, Rawson, Brooks and Borg, Des Moines

Engineer:
The Austin Company, Cleveland

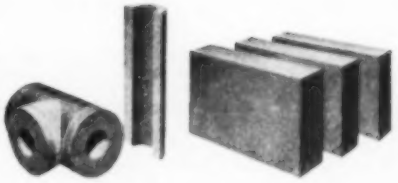
General Contractor:
A. H. Neumann & Bros. Company, Des Moines

Roofer:
Drake Roofing Company, Des Moines

Workmen find that the lightweight, easily handled blocks of FOAMGLAS are installed surprisingly fast. They are even able to move loaded wheelbarrows across the surface of the FOAMGLAS without damage to this strong rigid insulation.

FOAMGLAS®

the cellular glass insulation . . . it stays dry!



PITTSBURGH PC CORNING ®

Pittsburgh Corning also makes PC Glass Blocks

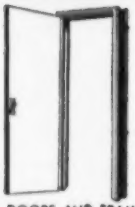
WHAT GOES ON HERE?

Pictured above is just a small part of the technical staff available at Aetna Steel to engineer the custom production of Aetna hollow metal products.

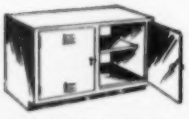
As every architect knows, engineering follow-through on specifications is high on the list of factors which determine the success of a job.

Aetna engineering and research is backed by fifty years' experience in the design and manufacture of hollow metal products.

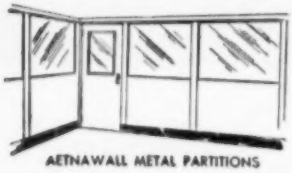
That's why architects know they can depend on Aetna for the kind of care and regard for detail which clear the way for quick and economical installation.



STEEL DOORS AND FRAMES



STEEL HOSPITAL CABINETS



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by Carl Feiss

out of school

May I commend to the attention of readers of this column the excellent report on architectural education by Walter A. Taylor, Director, Department of Education and Research, AIA, published October 1953 in the Higher Education Division of the Office of Education of the United States Department of Health, Education, and Welfare. Copies are obtainable from the author at The Octagon in Washington. I will comment on this report in a subsequent column.

•

I take pleasure in opening the New Year with a guest article on the Department of Architecture in the School of Engineering and Architecture, Howard University, Washington, D. C., by its Head, Dr. Howard H. Mackey. There is, in my opinion, a great future for the Negro architect in this country and throughout the world. While none of us wishes to perpetuate race consciousness, it should be clear to all of us that the Negro trained in so excellent a school as Howard University has an opportunity of practicing his profession among a people whose miraculous cultural development in recent times gives fair promise of a social integration in which the skills of the architect will be in great demand. Dr. Mackey, in his modest statement of the work at Howard University, makes no claims beyond those of a thorough program of architectural education. That the graduates of this school are moving into the world on an equal footing with their white brothers and with equally just claim of a sound training in architecture is a fact which we should all recognize as evidence of one more advance made in the development of our civilization.

•

Architecture at Howard University. Howard University in Washington D.C., was first projected November 20, 1866, as Howard Theological Seminary, so named in honor of Maj. Gen. Oliver Otis Howard, founder. At a meeting on January 8, 1867, the name of the institution was changed to Howard University. On March 2, 1867, the school was incorporated as "a university for the education of youth in the liberal arts and sciences under the name, style, and title of The Howard University."

Realizing the increasing demand for trained engineers and architects, the Board of Trustees of Howard University decided to offer courses in civil, electrical, and mechanical engineering, and in architecture. During the years 1908-1910, the general trend and adjustment of the work in the departments of physics, mathematics, chemistry, drawing, and biology made the introduction of such courses practicable.

In 1911, four-year college curricula leading to the Bachelor of Science degree in Civil, Electrical, and Mechanical Engineering, and Architecture were established at the University.

In 1948, the training program in Architecture was completely revised and reorganized on a five-year basis, leading to the degree of Bachelor of Architecture.

The Department of Architecture is accredited by the National Architectural Accrediting Board, is registered with the University of the State of New York, and is a member of the Association of Collegiate Schools of Architecture.

Whereas the student body in Architecture is predominantly Negro, students this year are enrolled from 28 states and many foreign countries including Nigeria, Liberia, Gold Coast, Malaya, Japan, South America, Puerto Rico, Cuba, and Canada. Approximately 5 percent of the total enrolment (110) is white.

Alumni and Graduates. Prior to 1946, the enrolment in Architecture at Howard University was very small, averaging about 15 students for the total enrolment per year. Mortality in enrolment was very high, with many students dropping out before graduation. Economic insecurity, and lack of employment opportunities played a large part in contributing to this mortality. Following World War II, with the scarcity of trained designers and draftsmen, architectural firms were desperately in need of personnel. Men and women architecturally trained were in great demand. Color of skin became less and less a barrier to employment. G.I. privileges for higher education made it possible for many to go to college, who otherwise could not afford to go to college. As a result, all architectural schools were swamped with applicants. Enrolment at Howard jumped from 19 students in 1946, to 125 in 1947, and to 199 in 1949. White offices as well as Negro offices which employed our alumni and graduates became convinced that the students from Howard were capable of performance equal to that of students of other schools. Offices which were all white, in many instances, became integrated, and sociological incidents and problems which were expected to happen, just never happened. Office morale was not destroyed, as was feared, and white employers began to seek the services of Howard graduates.

Our graduates are engaged as practicing architects, teachers of architecture, designers, draftsmen, and clerks-of-the-works in such places as Washington D.C., Philadelphia, Trenton, Newark, Jersey City, Brooklyn, New York, New Haven, Pittsburgh, Cleveland, Detroit, Chicago, St. Louis, Nashville, Memphis, New Orleans, Atlanta, Sacramento, and Los Angeles. One of our recent graduates is conducting a practice in Nigeria, Africa, and is doing well. Others who will graduate this year and the next few years will, after obtaining adequate practical experience, return to their native countries (Liberia, Gold Coast, Malaya, South America, Puerto Rico, and Canada) to practice as principals, and make their contributions to the development of the social economy of those countries.

The architectural faculty of Howard University feels very optimistic about the future of its graduates in Architecture. With vast building programs projected in this country and abroad, and with employment opportunities becoming less a

(Continued on page 168)

NATIONAL

STEEL BOILERS

Source of year-round comfort for guests of TOM SAWYER MOTOR INNS

Two automatically controlled, oil-fired National Steel Boilers (in each of the Tom Sawyer Motor Inns) provide heat and year-round domestic hot water for up to 100 guests a night at Elmira, N.Y.; for up to 220 guests daily at Albany, N.Y.

Architect: Benjamin A. Crowther, Elmira, N.Y. General Contractor: Decker Construction Corp., Elmira, N.Y. Wholesalers: LeValley, MacLeod, Inc., Elmira. Heating Contractors — Albany: A. J. Eckert Co.; Elmira: C. R. Evans Corp.

Twin combination National hot water central heating plants are the heart of one of the most modern and well-engineered motel installations in the country today.

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says Col. James P. Schwartz, President

These boilers have been in continuous operation with no maintenance cost for five years at Elmira . . . and since 1951 at Albany.

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Complete Heating for Homes, Commercial Buildings and Industry since 1894.

out of school

(Continued from page 167)

problem, the identity of race soon will be no longer a stigma or medium of evaluation, and professionals will be employed on the basis of ability to perform, rather than on the color of the skin.

Excellent facilities for study of Architecture have been provided in a new building recently completed to house the Departments of Civil, Electrical, and Mechanical Engineering, and Architecture. For Architecture there are spacious drafting rooms for upper and lower divisions in Architectural Design; a model-making room; a studio for instruction in Freehand Drawing, Water-color Painting, and Life-class; exhibition room for display of student work, traveling exhibits, and for architectural judgments; auditorium equipped for illustrated lectures and motion pictures (this auditorium is completely air conditioned); a construction museum with a file on current products, literature and samples of building materials and appliances, specially prepared structural models displaying the use of materials and methods of construction and fabrication, blue prints of working drawings and specifications of buildings actually constructed; and a library which contains a practical variety of documents, photographs, plates, and slides, and a file of American and foreign periodicals devoted to architecture and the allied arts.

The faculty in Architecture is composed of eight full-time teachers and one part-time teacher, with visiting critics called in from time to time, and visiting lecturers. These teachers give instruction in the professional architectural courses only. Five teachers from the Art Department offer instruction to the architectural students in History of Art, Life-class Drawing, Freehand Drawing and Water-color Painting. Six teachers from the Engineering Departments offer instruction to our students in Surveying, Statics, Strength of Materials, Structures, Wood, Steel, and Reinforced Concrete, Mechanical Equipment of Buildings, and Electricity and Illumination. Liberal arts subjects are taught by the faculty of the College of Liberal Arts.

The architectural faculty is an inte-

(Continued on page 172)

NEW YORK'S FIRST OFFICE BUILDING

with automatic Autotronic elevatoring

A busy office building, the Carnegie Endowment International Center, has been successfully using automatic elevators without operators for more than six months.

The immediate acceptance of passenger operated elevators by New York tenants and visitors alike is attributed to the simplicity of operation, the excellent service, and the ease of communication with the starter by car telephone.

Naturally, management is also thoroughly satisfied.

CARNEGIE ENDOWMENT INTERNATIONAL CENTER

Facing the broad expanse of United Nations Plaza at 46th Street, this new 12-story building houses 38 national and international non-profit organizations devoted to the improvement of human welfare.

The building's 800 occupants, some 500 daily visitors, and a unique arrangement of conference and meeting rooms on the 2nd floor create a highly diversified traffic pattern throughout the day. Traffic is kept moving smoothly by 4 automatically operated AUTOTRONIC elevators.

OTIS AUTOTRONIC Elevatoring secures the maximum quantity and quality of performance from a group of elevators. All operations can be AUTOMATICALLY and ELECTRONICALLY controlled—including automatic recognition and instant readjustment for any traffic pattern variation.

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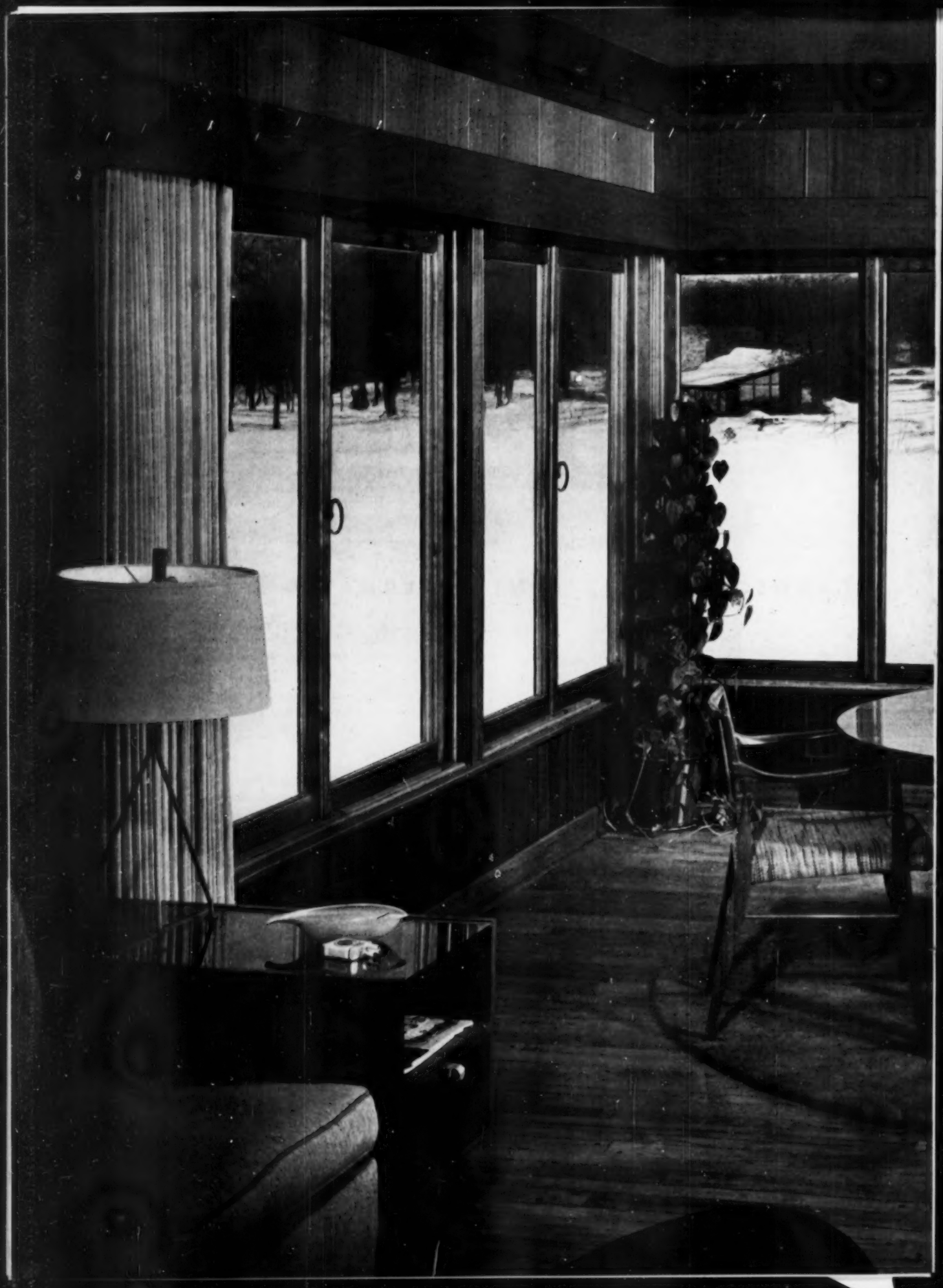

Andersen Gliding Window Units in a home by Norman Johnson, architect

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You can make certain windows will pass winter's rugged test by installing Andersen WINDOWALLS. Here Andersen Gliding Windows admit a pleasant view and winter sunshine. Yet they form a weathertight wall, a shield against winter's chilling blasts. Like all Andersen Units, they're both windows and walls. They're Andersen WINDOWALLS... famous for weathertight construction and made of beautiful, insulating wood.

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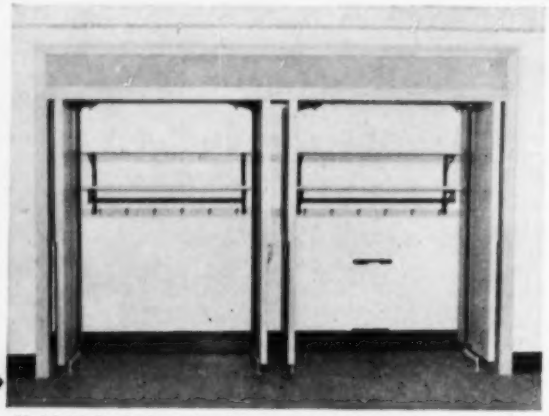

Model 400 Single Operating Receder With Hanger Rod. Conventional coat hooks available if desired. Teacher closet and/or supply closet can also be included with installation.

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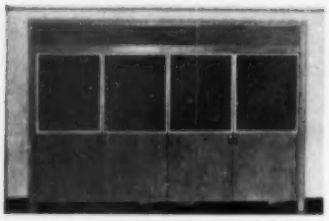
EMCO wardrobes mean you need not compromise on the fundamentals of SPACE — SAFETY & SERVICE



Model 400 Showing Doors Closed. Equipped With Bulletin Boards.

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The EMCO line is a complete line offering both Receder and Pivoted wardrobes and in multiple operation as well as individually operating doors.

For foresighted planners, classroom fundamentals extend even to the room's wardrobe. EMCO eliminates any compromise with the fundamentals of wardrobe planning. *First*, clearance below doors is right for ample ventilation and very quick cleaning. *Second*, no hardware protrudes on floor of recess to trip a child. *Third*, doors move easily, silently and are adjustable for alignment should settlement occur in floors or jamb. *Fourth*, and very important, *EMCO guarantees its installation for the life of the school in writing* and backs up this guarantee with service by local factory representatives.

The world's most copied wardrobe is EMCO — but EMCO's quality features cannot be copied — so be sure of quality by specifying EMCO. Prices are competitive with all others.

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Get details on EMCO's disappearing pivot arm which gives unobstructed recess. Also latch feature for open and shut position.

Firm _____

Name _____

Address _____

City _____ State _____

out of school

(Continued from page 168)

grated one, half of the members are Negro, half are white. Members of this faculty were trained at such schools as Harvard University, University of Pennsylvania, Western Reserve, Georgia Institute of Technology, Kansas State College, Catholic University, Cooper Union, Columbia University, and Howard University, with about 70 percent of the faculty holding advanced or graduate degrees in Architecture.

Most of the teachers are members of the American Institute of Architects, are registered architects and conduct private practices. At this writing, one faculty member is serving as vice-president of the Washington-Metropolitan Chapter of the AIA.

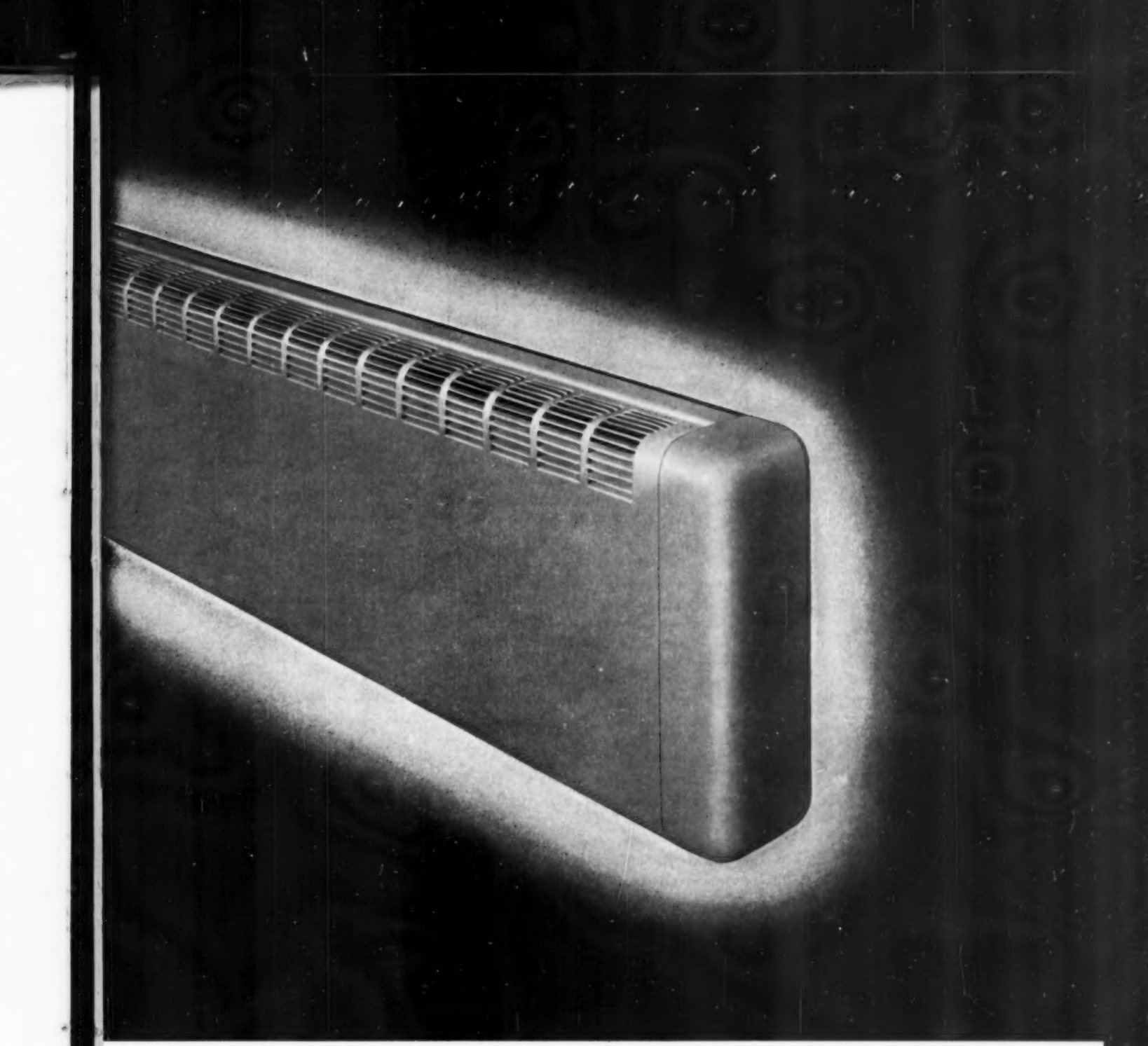
The curriculum or training program offers two options, (one in *Design* and one in *Construction*) leading to the degree of Bachelor of Architecture. The objective of the department is to train students (men and women) in the principles of Architecture and its practice. Both options offer instruction for a general understanding of the profession of Architecture from the standpoint of esthetics, design fundamentals of modern building construction, professional practice, and building economics. The first two years of work is identical in each option; specialization is selected in the third or Lower Junior Year.

The *Design Option* places the major emphasis on architectural design, and includes a substantial program in structural analysis and design, materials and methods of building construction, and the mechanical equipment of buildings.

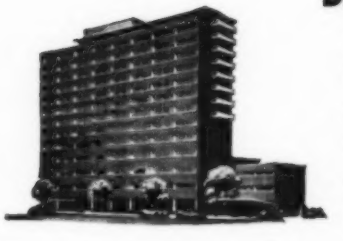
The *Construction Option* places emphasis on engineering and structural design, and all phases of building construction, and mechanical equipment of buildings; and requires its students to pursue architectural design through the fourth or Upper Junior Year. In the Senior Year, students develop construction theses under varying conditions.

Each option includes, in its course of study, liberal education subjects such as mathematics, foreign language, English, public speaking, sociology, and physics.

(Continued on page 174)



DESIGNED FOR MODERN HEATING



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for many thousand tomorrows.

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out of school

(Continued from page 173)

Design Courses. Five levels of design are recognized: first-year predesign; second-year, third-year, fourth-year, and fifth-year design. First-year predesign is programmed to acquaint the student with the relationship between the characteristics of materials and their employment in design, wall openings, circulation, and ordinary equipment of the small plan. Lectures are supplemented by demonstrations and assignments of rendering in various media, sketches, and the development of a scale model of a particular structure.

For the second, third, fourth, and fifth years of design, CYCLES of subjects for design programs are established by the design committee. Each of these cycles covers one year's work. The cycle for the second, third, and fifth years of design is arranged from the following subjects:

a. Residential buildings
b. Commercial-Industrial buildings
c. Ecclesiastical buildings
d. Social buildings
e. Institutional buildings
f. Monumental or Public buildings.

The cycle for the fourth year of design which embraces site planning and community planning is arranged from the following subjects:

a. Subdivision projects
b. Institutional projects
c. Recreational projects
d. Industrial projects
e. Redevelopment projects
f. Civic or Monumental projects.

Programs for the fifth year of design for the most part are selected and written by students, under the guidance and advice of the design staff. The general cycle for this year of design is arranged from the same subjects that are used for the second and third years.

Students in fourth-year and fifth-year design frequently are required to work in teams of two or three students on each problem. Design solutions and decisions are thus achieved by collaboration.

The cycle system was initiated for the following reasons:

a. To make possible the selection of eminent visiting critics and specialists for

(Continued on page 178)

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NORTH CAROLINA
Bost Building Equipment Co., Charlotte
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Harold C. Parker & Co., Inc., Oklahoma City
Kelley Asbestos Products Co., Tulsa
OREGON
Acoustics Northwest, Inc., Portland
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PENNSYLVANIA
General Interiors Corporation, Pittsburgh
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TEXAS
Blue Diamond Company, Dallas
Fiberglas Engineering & Supply Co., El Paso
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Builder's Service Co., Fort Worth
UTAH
Utah Pioneer Corporation, Salt Lake City
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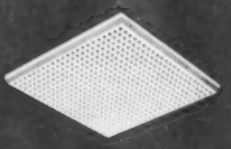
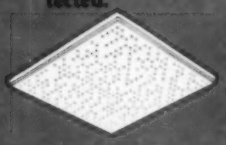
...these acoustical specialists and Simpson quality materials...

The acoustical contractors listed at the left were selected by this pioneer forest products organization as worthy partners in the highly technical business of sound control. Already experienced, their engineers and their craftsmen are kept abreast of new developments in materials and methods through a continuing exchange of information among themselves, and through periodic meetings with Simpson's acoustical experts. Superior materials, *plus superior installation*, add up to superior sound control. For consultation and estimates, call the Simpson Certified Acoustical Contractor nearest you.



Simpson ACOUSTICAL TILE
HOLLOKORE-DRILLED

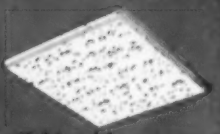
Simpson's perforated woodfiber acoustical tile is *Hollokore-drilled* for cleaner perforations. Its bright-white finish is washable, bevels are painted, acoustical efficiency is high, and it is Biotox protected.



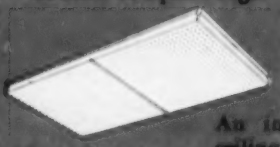
SCATTER-DRILLED

Same material, same finish, same clean perforations... but scatter-drilled to create an interesting pattern.

FISSURED MINERAL TILE



The natural fissuring varies from tile to tile, creating a beautiful ceiling texture. This incombustible tile is available either beveled or square-edge.



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FOR EVERY PURPOSE . . .

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Pneumatic power—compressed air—is simplicity itself, adaptable, dependable, economical . . . In the automatic regulation of temperatures and humidities, for example, Johnson *Pneumatic* Control has been the standard since the '80's. Each Johnson controller is merely a reducing valve in a compressed air line, set and reset automatically by an accurate temperature or humidity measuring element, to transmit compressed air in varying amounts to the valves and dampers which it controls.

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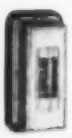
Attesting to the accuracy, dependability and adaptability of pneumatic control are thousands of Johnson Automatic Temperature Control Systems in textile mills, chemical and food processing plants, schools, hospitals, hotels, shopping centers, airports, office buildings, apartments, and many other types of buildings. An experienced engineer from a nearby Johnson branch office will gladly explain the many compelling advantages of Johnson *Pneumatic* Control for your clients' buildings. There is no obligation. JOHNSON SERVICE COMPANY, Milwaukee 2, Wisconsin. Direct Branch Offices in Principal Cities.



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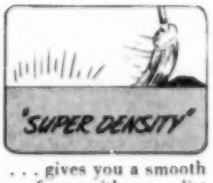
. . . in a floor surface like this. Cleaning is difficult, ineffective, costly.



. . . gives you a smooth surface with no dirt catching pores. Cleans as easily as a china plate.

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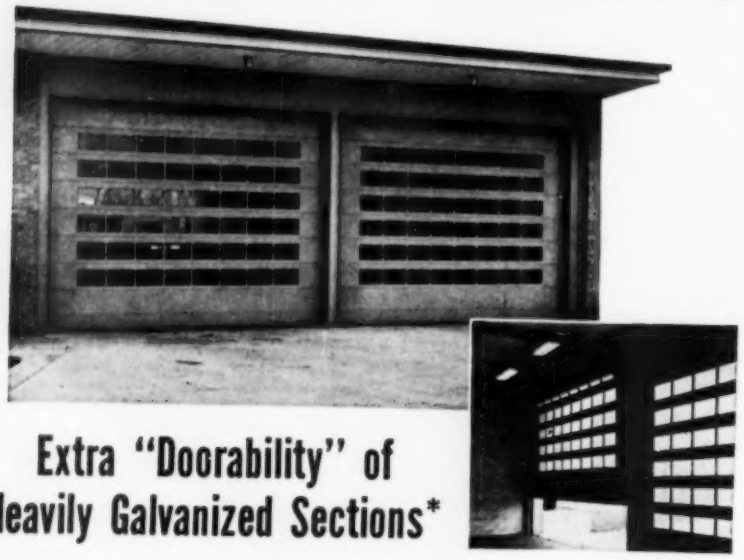
Kinnear Steel RōL-TOP Doors



Extra "Doorability" of Heavily Galvanized Sections*

Will not sag, warp, rot or split
Built to fit openings of various sizes
Easy space-saving upward action
Opens completely out of the way
Lasting resistance to fire, wind, weather
Heavy-duty torsion spring counterbalance
Provision for any number of glass panels
Easily installed in old or new buildings

WRITE FOR THIS FREE RoL-TOP BULLETIN TODAY!

In Kinnear Steel RōL-TOP Doors, you get the efficiency of smooth ball-bearing upward action . . . *plus* all-steel strength and durability . . . *plus* provision for glass panels in one or more door sections, as desired.

*To assure extra service life with minimum maintenance, the rugged steel sections are given a heavy coating of pure zinc (1.75 oz. per square foot of flat metal per ASTM standard) by the hot process. Then Kinnear's Paint Bond (a special phosphate immersion process) is added, to make sure paint will adhere *immediately and thoroughly* to the protective zinc coating.

In every detail, Kinnear Steel RōL-TOP Doors feature extra strength and ruggedness, for long, heavy-duty, low-cost performance. Sizes to fit any opening. Manual, chain, or motor operation. WRITE FOR FULL DETAILS.

KINNEAR ROLLING DOORS
Saving Ways in Doorways

Kinnear Steel RōL-TOP Doors are designed and built by the same door specialists who *originated* the door with the interlocking steel-slat curtain—famous for more than half a century as the Kinnear Steel Rolling Door.

The KINNEAR Manufacturing Co. *Offices and Agents in All Principal Cities*
FACTORIES: 1900-20 Fields Ave., Columbus 16, O.—1742 Yosemite Ave., San Francisco 24, Calif.

out of school

(Continued from page 174)

problems well in advance of the writing of the actual problems.

b. To insure student contact at various levels of design with a wide and carefully considered range of problem types.

c. To improve the integration of design with other courses in the curriculum. Teachers of other subjects will know well in advance what the design problems will be, and thus can gear their courses to include discussions on current design problems.

Design Procedures. Design programs are written by members of the design staff, visiting critics, and guests who are frequently eminent local practitioners. Each program is accompanied by a site, showing shape, boundaries, orientation, geographical location, contours, improvements, and physical characteristics. Students are required to design the building or project in accordance with the limiting influences of the site.

Three stages are recognized in the development of each design problem. These are:

a. Basic research stage
b. Progress study stage
c. Final study and presentation stage.

The basic research stage varies in length according to the problem given, but normally lasts one week. During this period the students are expected to:

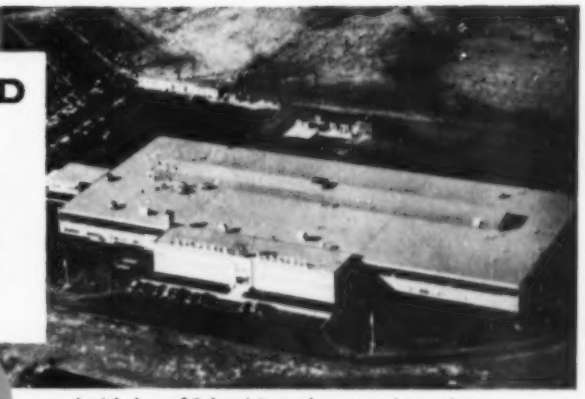
a. Pursue independent research.

b. Attend and participate in discussions. Discussion periods are one hour each, three times per week. Discussion is lead by the writer of the program, with the critics in that level of design in attendance and participating. Visiting critics and specialists are brought into these discussions as often as possible.

At the end of the period, a *Preliminary Study* is prepared by the student and submitted for criticism. The nature, form, and due date of this preliminary study is stated in the program. In general the preliminary study is made on 8½″ x 11″ or 11″ x 17″ tracing paper, and will show a *scheme* in diagrammatic form. Its purpose is to record the results of the research and thinking during the basic research period as applied to the problem

(Continued on page 182)

PRODUCTION SPEEDED AT SYLVANIA'S ELECTRONICS DIVISION NEW PLANT AT WOBURN, MASS. with



Aerial view of Sylvania's modern new electronics plant at Woburn, Mass.

Interior of Sylvania's Electronics Division new plant at Woburn, Mass. showing the effective use of FA Powerplugin and Hi-Efficiency Busduct to carry power from service entrance to all parts of the plant.

FA Powerplugin with a plugin outlet every foot of the way gives Sylvania the efficiency, flexibility and economy of operation so vital today.

FA Powerplugin and Hi-Efficiency Busduct are available in the following capacities:

FA Powerplugin — 250 to 1,000 amperes, 600 volts AC or less, with Klampswitchfuz, (disconnect) Shutlbrak (operating) and Circuit breaker plugin devices for 200 amperes and less, 2, 3, and 4 conductor, solid neutral types.

FA Hi-Efficiency Busduct — 600 to 4,000 amperes, 600 volts single phase for welding service; three phase or three phase, four wire service for light and power.

Powerplugin and Hi-Efficiency BUSDUCT

SYLVANIA, like many other companies throughout the country, found that FA Busduct added greatly to the efficiency, economy, and flexibility of its operations.

That is why the company installed FA Powerplugin and Hi-Efficiency Busduct in its Electronics Division new plant at Woburn, Mass. and others.

FA Busduct enables the company to make quick changes in plant and structural layouts without disrupting production. It eliminates temporary connections and long lead-ins, cuts maintenance costs and affords big savings by reducing power loss and voltage drop to a minimum. Too, it is 100% salvageable.

Built in standard ten foot lengths, FA Busduct can be easily arranged to run horizontally at floor level or overhead, through tunnels, under the street or through walls or roof. Dust-resisting and raintite construction available for specific installations.

If, like Sylvania, you want an efficient, economical, and flexible system of power distribution for your plant, ask your nearest FA representative, listed in Sweet's to tell you about FA Busduct.

Frank Adam Electric Co.
P. O. BOX 357
ST. LOUIS 3, MISSOURI

Makers of: BUSDUCT • PANELBOARDS • SWITCHBOARDS • SERVICE EQUIPMENT • SAFETY SWITCHES • LOAD CENTERS • QUIKHETER

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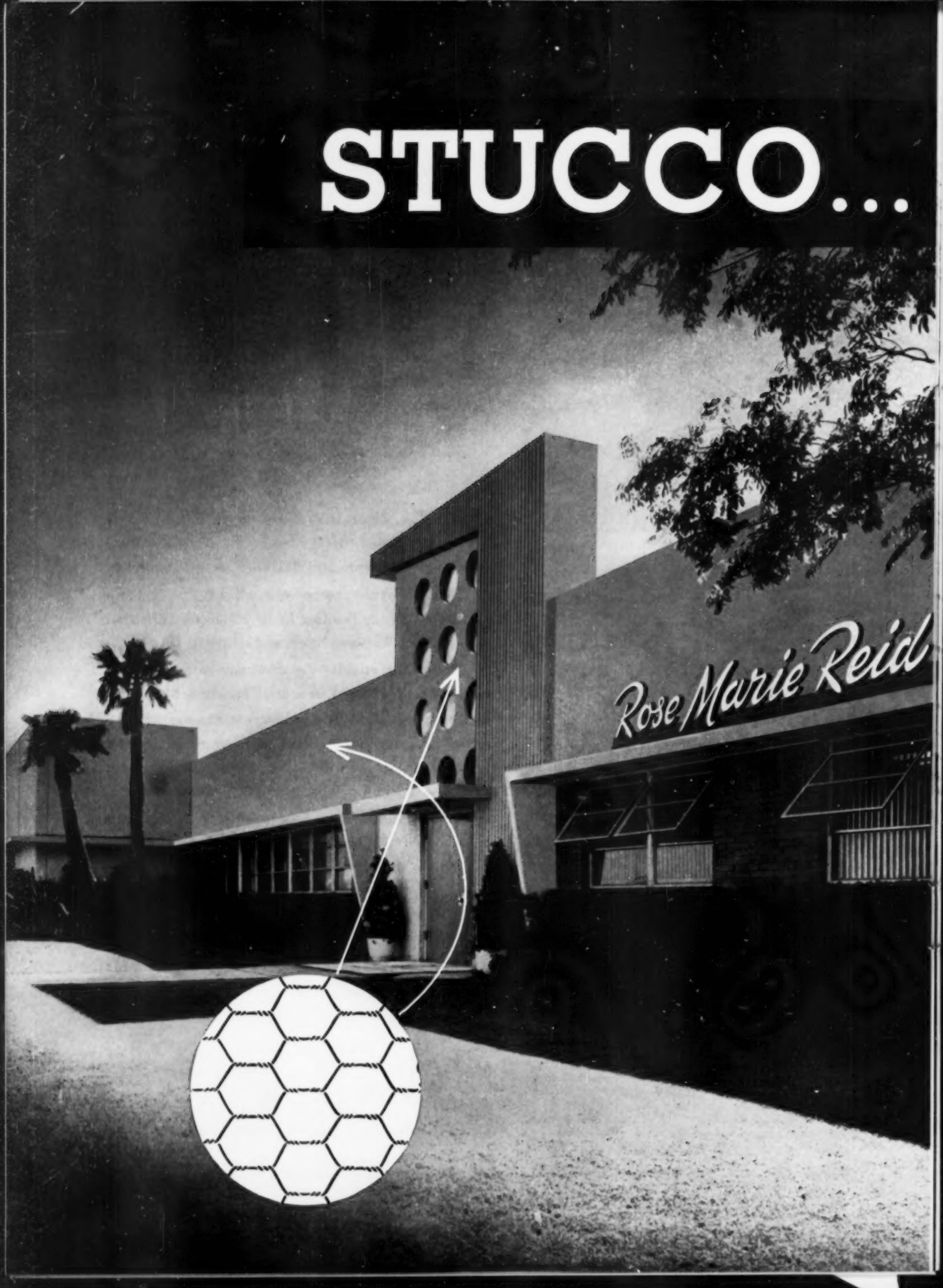

reinforced with

KEYMESH

GALVANIZED REINFORCING

...FOR COLORFUL, DRAMATIC, LONG-LIFE EXTERIORS OF NEW OR MODERNIZED BUILDINGS IN ANY CLIMATE

Only stucco—portland cement stucco—offers the wide adaptability for exterior finish that is required by today's dramatic design.

With stucco, striking effects can be obtained with large, plane surfaces. It can be molded economically to any shape. It can be adapted to any color requirement.

Meets Any Design Requirement

It can be adapted to either modern or traditional architectural design. And, whether that design requires soft pastels, deep tones, brilliant whites or subdued grays, exacting color requirements can be met. The flexibility of stucco design is further demonstrated by the ingenuity with which architects, builders and craftsmen take advantage of the textures and contours which can be obtained economically in no other way.

In addition to its exceptional adaptability to design requirements, portland cement stucco reinforced with Keymesh is strong, durable, fire resistant, low in cost and requires little maintenance.

Excellent for Modernizing Work

The Keystone System of Stucco Application with Keymesh-reinforcing can be applied successfully to any home or business structure—new or modernized—in any locality and of any design. The Keystone System provides advantages in any climate. It costs less to apply than most other types of exterior finish—costs less to maintain.

Write for your copy of the Keystone System of Stucco Application.
It gives complete illustrated details.

Keymesh, the easy-to-handle, multi-directional reinforcing lath, comes in 150' rolls, 3' and 4' wide in special wire gauges for stucco work. The open mesh design assures maximum embedment of the steel network for stronger stucco reinforcement. Write for details.

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Peoria 7, Illinois

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KEYSTONE NON-CLIMBABLE AND ORNAMENTAL FENCE

HARDWOOD PRODUCTS
Solid Core DOOR

VENEER DATA helps you maintain uniformity on all specifications

Do you know that most Birch veneer used in quality doors comes from one specie? Confusing as it may seem, Natural, Red and White Birch actually all come from the Yellow Birch tree! Regardless of type, however, HPC Birch Veneer doors are carefully matched for a pleasing decorative effect.

NATURAL BIRCH (sometimes referred to as unselected) is a mixture of heartwood (Red) and sapwood (White). Natural Birch is selected for quality but not for color. It is available on Hardwood Doors in 1/20" Rotary Cut, 1/20" Sliced, 1/8" and 1/4" Sawn veneers.

RED BIRCH is the heartwood of the Yellow Birch tree, and is selected for both color and quality. *Selected* Red Birch Veneer on Hardwood Doors comes in 1/20" rotary cut and 1/20" sliced.

WHITE BIRCH is the sapwood of the Yellow Birch tree and is selected for both color and quality. *Selected* White Birch Veneer on Hardwood Doors is available in 1/20" Rotary Cut and 1/20" Sliced.

Don't take chances with veneer species, color or grain when matching doors or surroundings. Consult us or refer to Sweet's 15c/HA file for complete veneer data on Hardwood *Solid Core* doors — the quality door you'll surely specify when only the best will suffice.

Custom-Built FOR YOU!

You can specify any type HARDWOOD Doors with full confidence that they will meet your specifications. All, are made-to-order and guaranteed free from defects of workmanship and materials.

HARDWOOD RIVERBANK Sound Insulating Doors

America's finest doorway closure for reducing noise penetration — insuring room privacy. Send for new FREE brochure describing RIVERBANK doors in "easy-to-understand" non-technical language.

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out of school

(Continued from page 178)

at hand. The preliminary study is criticized and graded. Failure to submit a preliminary study results in a penalty of 10 percent reduction in the final grade for the finished problem.

The progress study stage varies in length from ten days to two weeks. At the end of this period a *Progress Study* is submitted. The exact requirements for the progress study varies, hence these requirements are stated in each program. In general the progress study shows a carefully considered design, and should be simply and appropriately presented. The progress study is judged and graded, and grade received affects the final problem-grade to the extent of 15 percent.

It is not mandatory that students in submitting final designs adhere to the scheme presented in either the preliminary study or the progress study. Changes that will improve the design may be made at any time without penalty.

The program states in each case the nature and form of the *Final Submission.* A model is frequently a required submission for selected problems in each year of design.

It is universally recognized that a simultaneous consideration of space relations, techniques, and economy are necessary for good design. In order to promote such thinking, the design staff requires:

a. Construction sections and outlines as a part of the final presentations of all design problems.

b. Cost studies and other economic studies whenever these are feasible.

c. A tie-in or integration of courses in construction, acoustics, mechanical equipment, specifications, etc., with design as closely as possible.

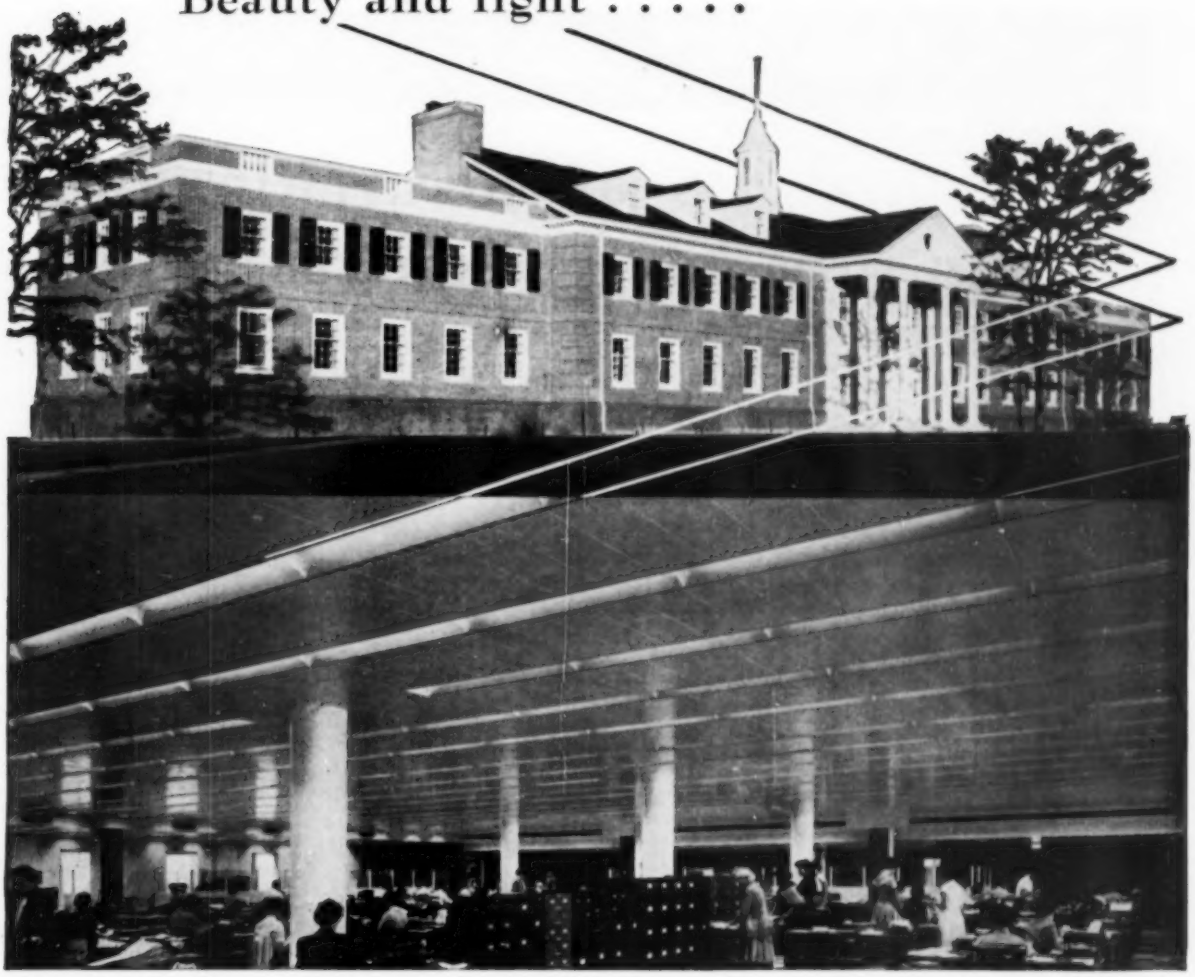
d. Consideration of the social and economic aspects of problems in each case.

e. The consultation services of experts in the fields of special building types (hospitals, schools, libraries, and the like), special structural systems, mechanical and electrical engineering, finance, etc., as visiting critics.

The design staff is divided into teaching teams of at least three critics to a team, for each design level. Design criti-

(Continued on page 186)

Beauty and light . . . . .



Architect—Victor L. Charn General Contractor—Ragnar Benson Inc. Electrical Contractor—Hultgren Electric Corporation

Colonial tradition in architecture and Curtis tradition in lighting

The new western headquarters of Aetna Insurance Company is situated in Suburban Park Ridge, Illinois; 25 miles from Chicago's "hum-drum" loop. This outstanding structure, on spacious landscaped grounds was designed to blend with the general motif of this progressive residential area and is an asset to the entire community.

To provide the finest in "Eye-Comfort" illumination for Aetna employees, Curtis Recessed Low-Brightness Troffers were selected for the beautifully appointed private offices and Underwriting and Casualty departments; resulting in a glare-free lighting installation for 115,000 square feet of modern office interior. Once again, the marriage of Alzak Aluminum and the sixty-inch low brightness fluorescent lamp rivals nature's ultimate . . . the shade of a tree on a sunny day.

There is a Curtis Lighting Specialist in every major city in the United States and Canada, he will be pleased to show you three dimensional kodachrome transparencies of the Aetna Insurance Company installation.

If you are not acquainted with the Curtis specialist in your city, we'll be glad to provide his name and address on request.

CURTIS LIGHTING, INC.

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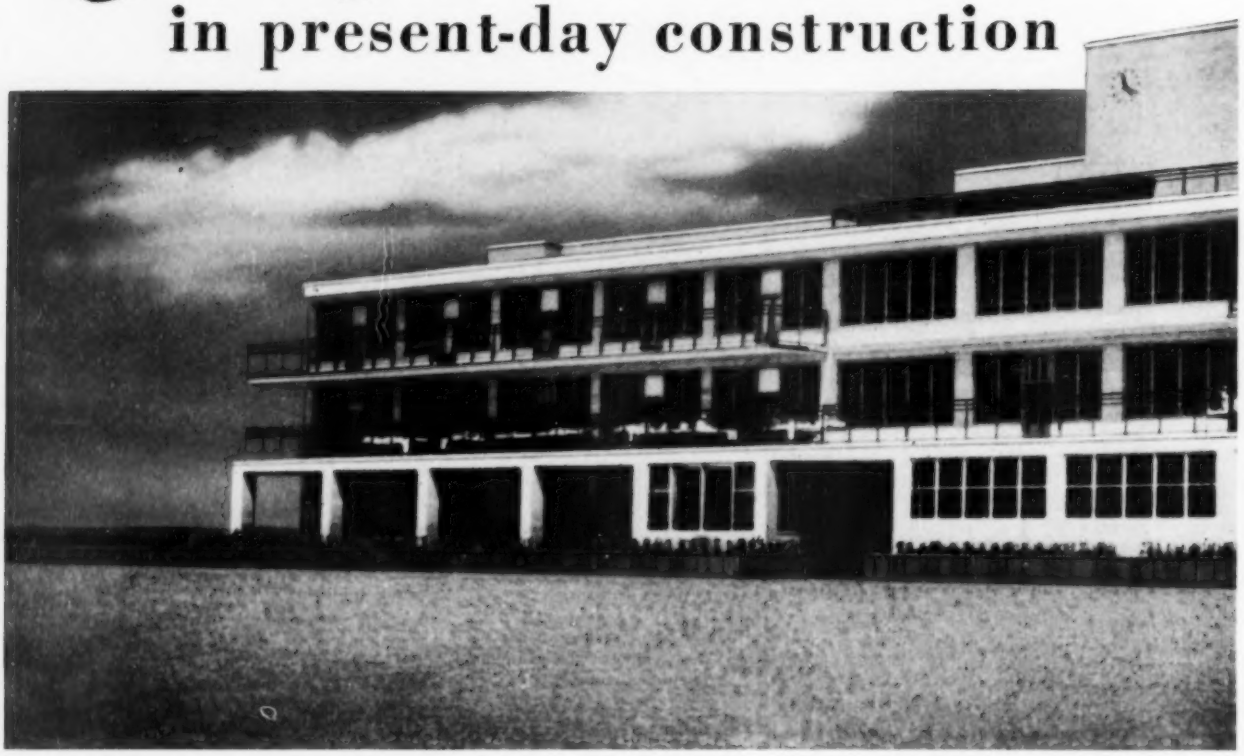
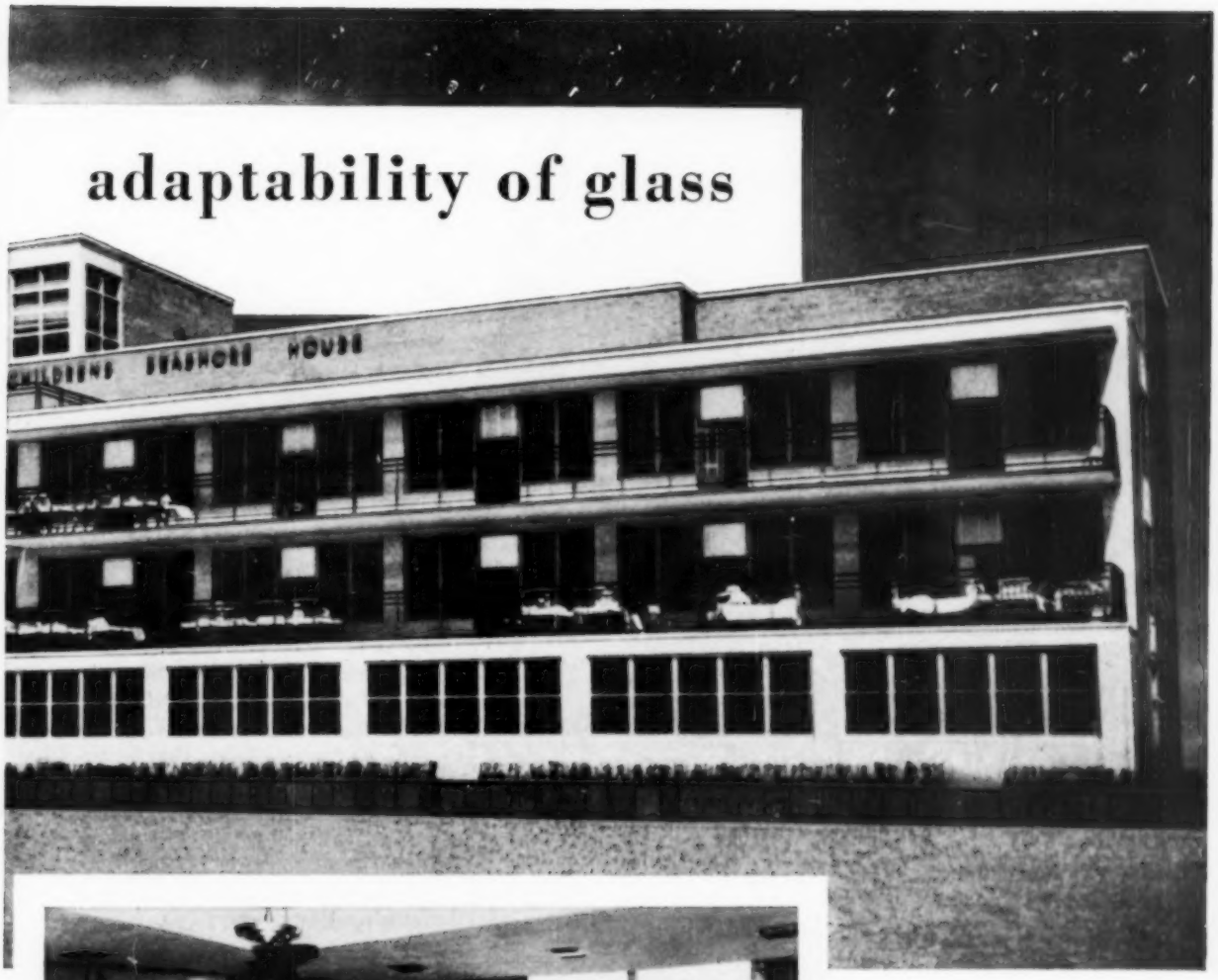
3 examples of the architectural in present-day construction



THE CHILDREN'S SEASHORE HOUSE at Atlantic City, N. J., is an excellent example of the architectural adaptability of glass in the modern hospital. Among the Pittsburgh Products used are clear Polished Plate Glass, Solex Heat-Absorbing Glass, Pennvernon Window Glass, Nucite Chalkboards, Copper-Back Mirrors, X-Ray Lead Glass, and Herculite sliding showcase doors. These products contribute importantly to the creation of a healthy "non-hospital" atmosphere, so necessary in an institution devoted exclusively to the care and rehabilitation of invalid children. Architect: Sydney E. Martin; Associate Architects: Harry G. Stewart and Robert W. Noble, Philadelphia, Pa.

IN COMMERCIAL BUILDINGS, like this hardware store with its emphasis on open-vision, Pittsburgh Glass is playing an ever-expanding role as an architectural medium of great flexibili.y. This store front is glazed with ¾" Polished Plate Glass, 216" high. Herculite Doors further emphasize its openness. The metal used is the finest obtainable—Pittco De Luxe Store Front Metal. Architects: Beajamin Shapiro and Robert Tisdale, St. Louis, Missouri.

adaptability of glass



SOLEX Heat-Absorbing, Glare-Reducing Glass is utilized in the main lobby (shown at left) and in other oceanside windows of the Children's Seashore House. Solex is ideal here, for it transmits 75% of the total solar light while absorbing 50% of the sun's total heat. The result is an exhilarating, unobstructed view of the Atlantic Ocean, as well as interiors that are cooler in summer, more comfortable all year through.

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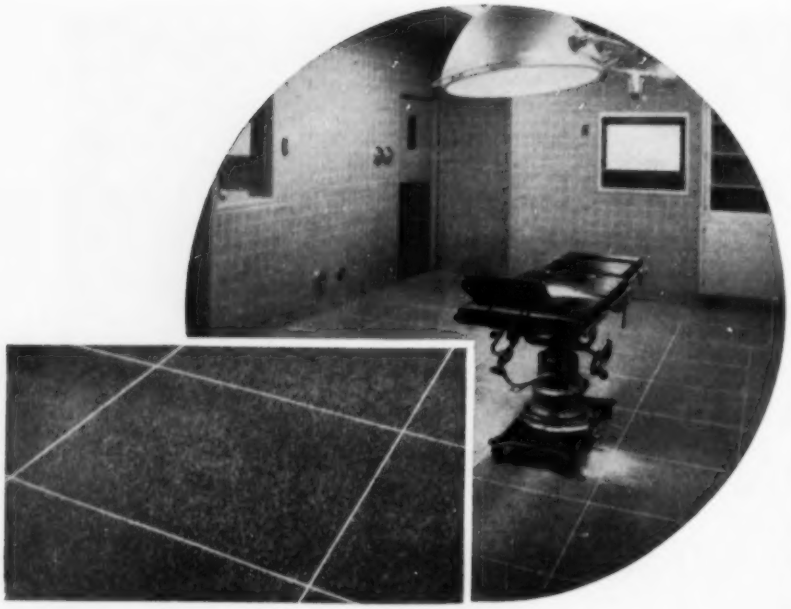

Conductive *Terrazzo* meets severest standards of operating room safety

The addition of acetylene carbon black to portland cement TERRAZZO, in accordance with U. S. Public Health Service specifications, meets all safety requirements of the National Fire Protection Association's *Standard #56*. Current thinking favors such overall conductivity for hospital floors in anesthetizing locations. Installations made during the past four years prove this latest example of TERRAZZO versatility.

Thus, *safety* is added to TERRAZZO's many other advantages for hospitals — permanence, easy maintenance, attractiveness, and ability to be made aseptically clean. Specify TERRAZZO — and be safe. Free AIA Kit upon request.

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out of school

(Continued from page 182)

icism is accomplished by individual criticism and by group discussions. Differences of opinion frequently arise and are expressed by the critics of a teaching team. This we feel is not confusing but healthful to the student. The student hears these differences and learns that there is no hard and fast oneness of approach to the solution of a problem, and develops frequently a philosophy of his own for solving the problem.

As the design student develops from the early stages of his course to greater maturity in design, the critic or critics make less use of the graphical method of conveying suggestions to the student, and employ the verbal means of communication. The critic will ask such questions as the student probably has not thought asking himself about the problem, and about the probable effects of that particular solution on the efficient functioning of the building. Thus the student is forced to make many trial sketches and drawings in order to visualize the answer to these questions. Sooner or later by drawing and comparison he becomes more sensitive and more mature in judging the proper esthetic and functional relationship of the various parts of his design.

Judgment of all design problems is accomplished by a jury composed of the faculty in Architecture, a student representative (elected by the students in the design level being judged, from the design level just above), eminent local members of the AIA, and specialists in the design and/or operation of buildings similar to those being judged. The student author of each design problem has an opportunity to appear before the jury; explain his design and his philosophy of interpretation of the program; answer questions from members of the jury; and in general defend his solution. (This procedure, we feel at Howard, develops the student's ability to express himself and verbally communicate his ideas to others convincingly.) He is then excused from the judgment room, and judging by the jury, after careful consideration of how well the student has solved his problem, is done by blind ballot. The average of

(Continued on page 188)

FOR RADIANT HEATING

choose easy-to-join

CHASE® COPPER TUBE

Architects and builders know that any radiant heating job is better with Chase Copper Tube. And Chase Solder-Joint Fittings make every joint leakproof. Easy-bending Chase Copper Tube comes in long lengths so fewer fittings are required. It's light in weight, corrosion-resistant, ideal for ceiling and wall installations, too. Write for FREE 50-page Radiant Heating Book today.

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A matador is aware of the risks in his job but because SLIPPERY FLOORS GIVE NO WARNING—often look safe—workmen can be killed or hurt before they know *their* danger! A practical remedy is A. W. SUPER-DIAMOND—tough, rolled-steel floor plate with an exclusive, engineered raised-diamond surface. SUPER-DIAMOND puts 40 anti-slip traction points in every foot-step—gives maximum foot safety at low cost. Investigate SUPER-DIAMOND for accident prevention. Write for new Booklet SD-25.

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CONSHOHOCKEN, PA.

Other Products: A.W. ALGRIP Abrasive Rolled Steel Floor Plate Plates • Sheet • Strip • (Alloy and Special Grades)

out of school

(Continued from page 186)

the tabulation of the votes by the jurors on each problem is the grade given that design problem (less, of course, any penalties incurred in the preliminary or progress submissions).

The Construction Thesis. Fifth-year students who have selected the *Construction Option*, are required to design a building which will lend itself to the development in one year, of a construction thesis composed of the complete architectural design, contract working drawings (architectural, structural, plumbing, heating, cooling, and electrical), large scale details, and complete specifications.

The construction thesis is pursued under the guidance of a committee of the design staff and consultants from the Departments of Civil, Electrical, and Mechanical Engineering.

•

A reading of Dr. Mackey's statement above, in the cool medium of print and without illustrations of work performed, tells the story only in part. A visit to the Department of Architecture at Howard University is a rewarding experience. I am thoroughly convinced that the graduates of this school have proved and will continue to prove that the Negro architect is no different than his white brothers in his professional competence and in his design talents. I anticipate the day when the profession of architecture leads all other professions in ignoring difference in "the color of the skin" of its members.

notices

P/A congratulates

NORMAN F. SORGENFREI, new assistant sales manager for the C. A. Dunham Company, 400 W. Madison St., Chicago 6, Ill.

JOSEPH A. MALONEY, new sales representative for the Northern New Jersey territory for the Coyne & Delany Company, Brooklyn, N. Y.

CARROLL M. BAUMGARDNER, new director in the manufacturer division of the Oil Heat Institute. Baumgardner is vice-president for sales of The National Radiator Co., Johnstown, Pa.

INSIDE STORY OF A . . . *Striking* EXTERIOR

Architect,	Douglas W. Orr, New Haven, Conn.
General Contractor,	Dwight Bldg. Co., New Haven, Conn.
Glass and Glazing,	Pittsburgh Plate Glass Co., New Haven, Conn.
Photograph,	Patry Carr Studio, New Haven, Conn.

The sleek, modern lines of the Grace-New Haven Community Hospital, Memorial Unit, New Haven, Conn., are partially achieved by Mississippi Coolite, Heat Absorbing and Glare Reducing Glass. Installed in spandrels, the effect created is a continuous band of sparkling, blue-green glass across each floor. This is functional beauty at its finest . . . for Coolite contributes a truly dramatic and different exterior.

Glazed into sidewall sash and skylights, Coolite Glass floods interiors with soft, pleasantly tinted daylight. All the harsh glare and other unwanted elements of "raw" sunlight are filtered to make seeing easier. Interiors are cooler, too, for Coolite absorbs 50% of the heat in the sun's rays.

And Coolite is practical . . . easy to clean . . . never requires painting. Its maintenance is simple . . . its beauty everlasting. Specify Coolite Glass by Mississippi and make improved daylighting and greater comfort an integral part of your plans.

There is no Substitute for GLASS!

It is non-combustible . . . won't burn. It is rigid . . . doesn't sag or warp. It has a permanently hard, impervious surface, not affected by time, abrasion or exposure to the elements. It won't corrode or stain. It resists chemicals. It is easily installed, maintained and cleaned by conventional methods.

Translucent, light diffusing glass by Mississippi is available in a wide variety of patterns and surface finishes, "visioneered" to distribute light to best advantage.

use our catalog in ARCHITECTURAL FILE or write for copy

Send today for free literature, "Coolite Heat Absorbing and Glare Reducing Glass."

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see catalog 31a/Bo in Sweet's File

DESIGN AWARDS PROGRAM

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*The 1001 MARS-TECHNICO has a sharpener concealed in the push-button cap, can be easily and completely disassembled and has individually replaceable parts.

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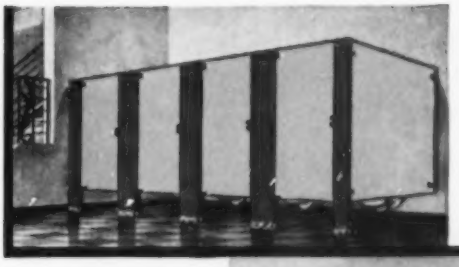
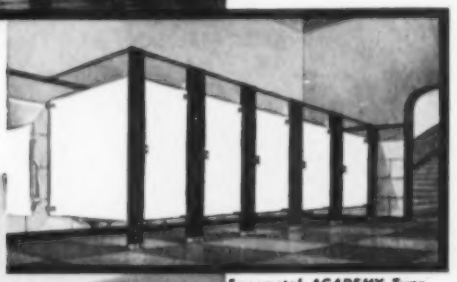


Sanymetal NORMANDIE Type Toilet Compartments *endow a rest room environment with dignity and good taste.*



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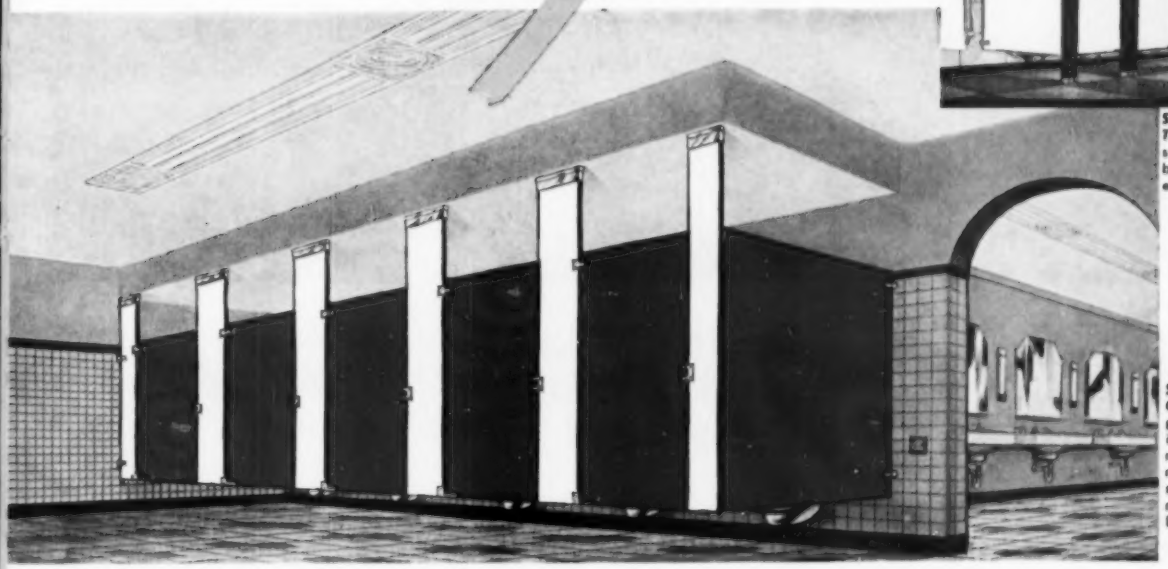

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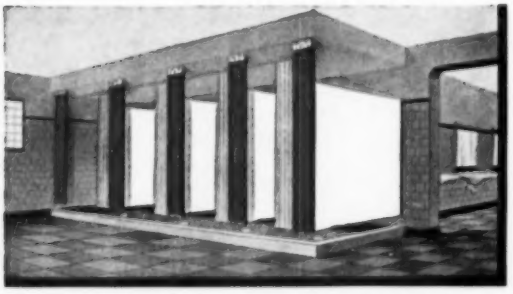

Sanymetal CENTURY Type (Ceiling Hung) Shower Stalls *of Sanymetal "Porcena" (Vitreous Porcelain on Steel) Partitions and Pilasters, as arranged for a typical club installation. Also available in Sanymetal "Tenac" (synthetic enamel baked-on over Galvanized, Bonderized* Steel).*

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Sanymetal offers several different types of toilet compartments. Sanymetal also offers and recommends Two Full Purpose Metal Base Materials which combine colorful attractiveness with long years of service life and effect important day-after-day savings in cleaning and maintenance costs. These Two Full Purpose Metal Base Materials—Sanymetal "Tenac" (Galvanized, Bonderized** Steel), and Sanymetal "Porcena" (Vitreous Porcelain on Steel), the ageless and fadeless, rustproof material—are described herein. Sanymetal Toilet Compartments are also available in cold rolled steel.

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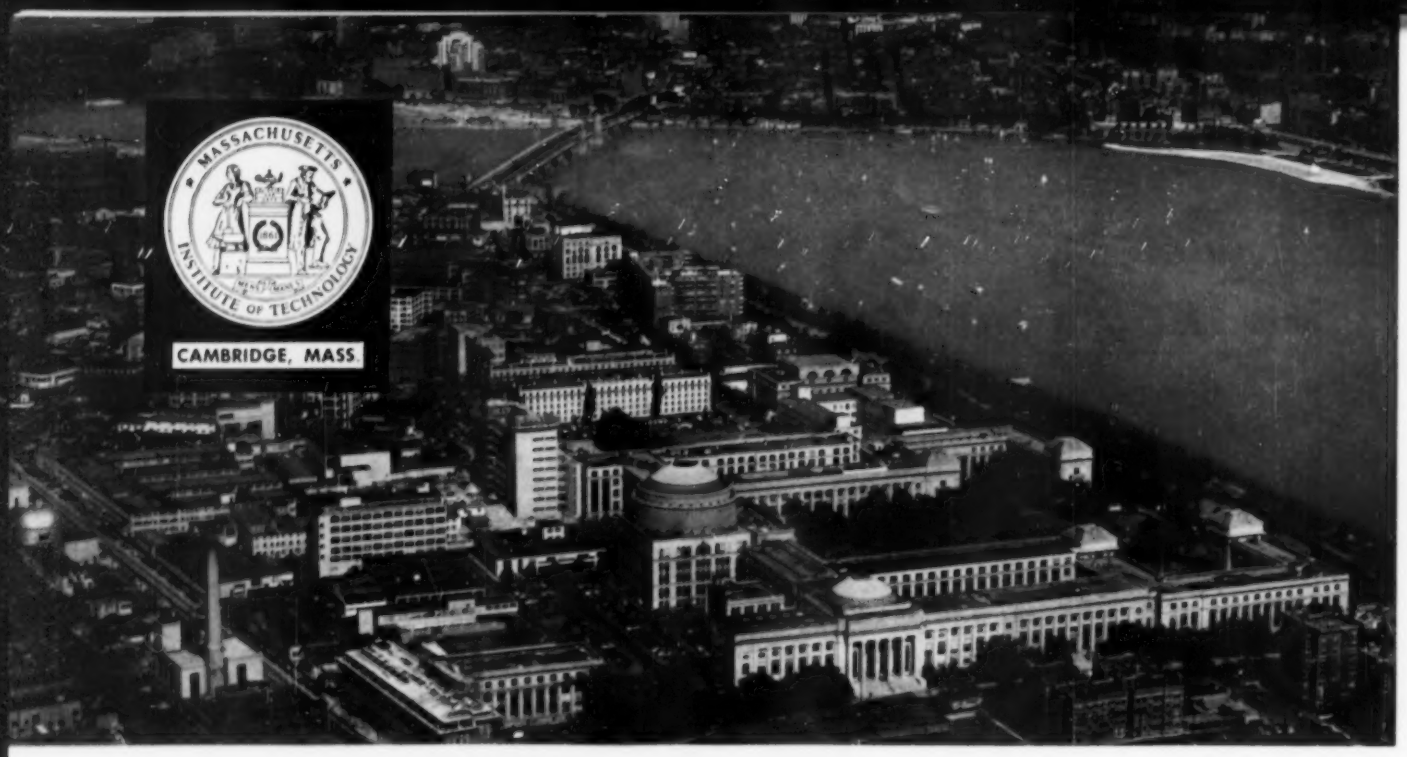

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- **SWIMMING POOL BUILDING**
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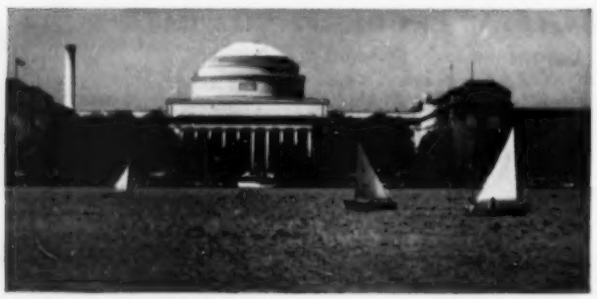
  Engineers: Wolff & Munier • Contractor: H. E. Whitten Co.
- **NEW AUDITORIUM, now under construction**
  Architects: Eero Saarinen & Associates
  Associate Architects: Anderson & Beckwith
  Engineer: Hyde & Bobbio • Contractor: H. E. Whitten Co.



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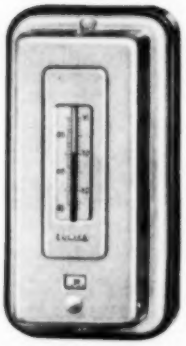

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DESIGN AWARDS PROGRAM

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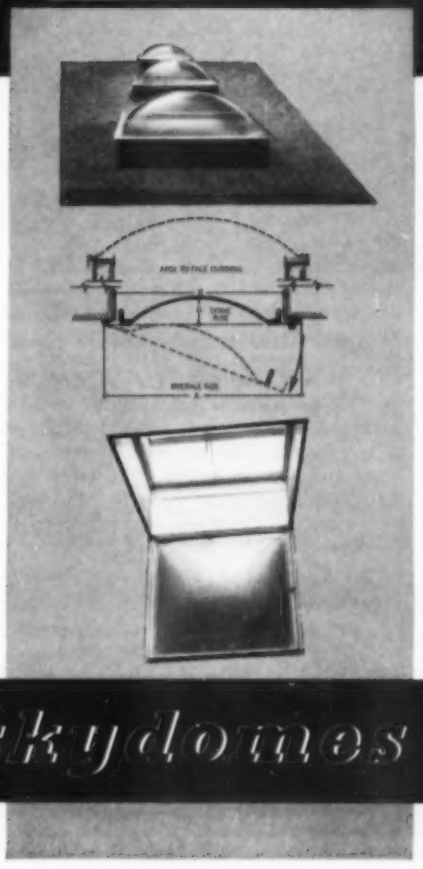

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Planning and Caring for our Schools. The 1953 Report. Conference on Operation and Maintenance of School Buildings, Conference on School Planning, Stanford University, Stanford, Calif., 1953. 69 pp., $3

Renewing Our Cities. Miles L. Colean. The Lord Baltimore Press, Baltimore, Md., 1953. 181 pp., illus., $2.50

Pencil Techniques in Modern Design. William W. Atkin, Raniero Corbelletti, Vincent R. Fiore. Reinhold Publishing Corp., 330 W. 42 St., New York 36, N. Y., 1953. 122 pp., illus., $8.25

Design & Construction of the General Hospital. U. S. Public Health Service. F. W. Dodge Corp., in collaboration with *Modern Hospital* magazine, 119 W. 40 St., New York 18, N. Y., 1953. 214 pp., illus., $12

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creative landmarks

New Design in Exhibitions. *Richard P. Lohse. Museum Books, Inc., 48 East 43rd St., New York 17, N.Y., 1953. 260 pp., illus., $13.50*

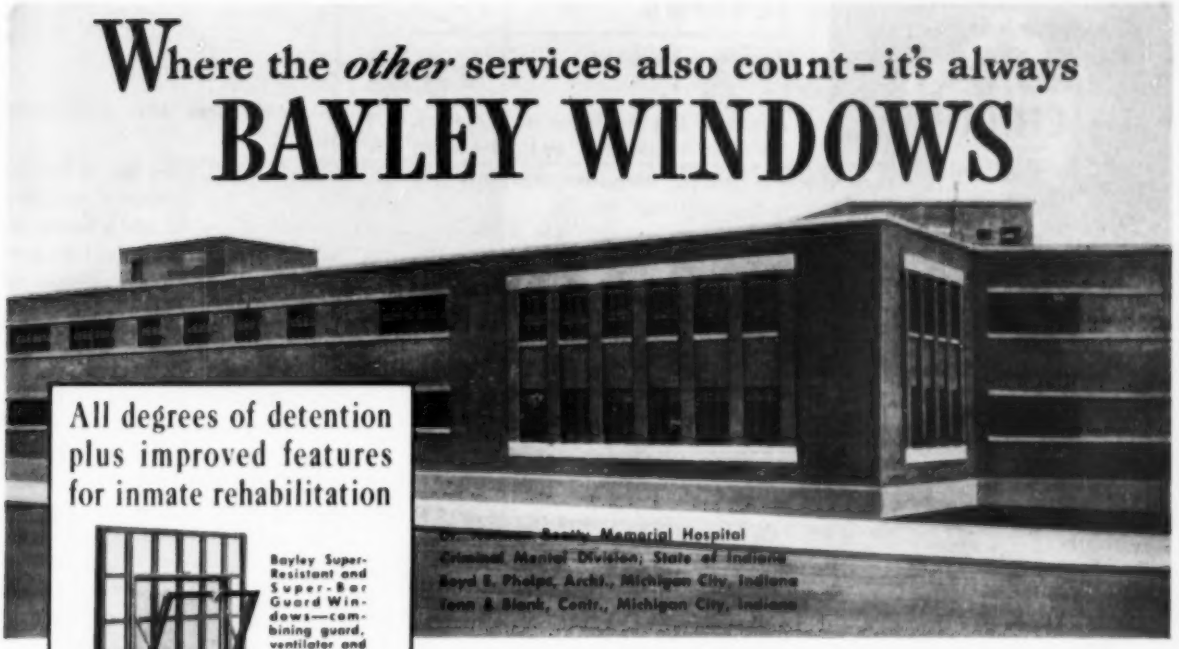
Few of us realize the great importance of exhibition design as a source of inspiration to those who organize buildings and the spaces within and around them. Since the first international exhibitions of our industrial age were organized, nearly 200 years ago, they have evaluated, step by step, the development of contemporary architecture, furniture, decoration, and equipment.

One has only to look back at the long roll call of great international exhibitions to see proof of this. London's Crystal Palace (1851) introduced buildings of steel and glass; Paris (1889) marked their further development, with a huge Palace of Machinery and the Eiffel Tower. After the romantic reaction typified by the Chicago World's Fair (1893) and its successors here and in Europe, the rebirth of modern design was celebrated at Cologne (1914) with exhibition buildings by van de Velde and Gropius. The strength and power of the new movement was proven at Paris in 1925, where projects by Josef Hoffman, Frederick Kiesler, and Le Corbusier exposed the shoddy sensationalism of the Arts Decoratif. It shone again at Barcelona (1929) with Mies's superb German pavilion. Then at Stockholm (1930), for the first time an entire exhibition area, indoors and out, was organized as a complete expression of the structural clarity, transparency, and spatial penetration of today's architecture.

These are more or less familiar highlights in recent architectural history. Less familiar, but equally important, are the achievements in exhibition building and display techniques which have taken place within the last 20 years. There is a tremendous contrast between the barn-like halls and static displays of the Crystal Palace and the rich and varied organization of the Triennial at Milan (1951). A whole new world

(Continued on page 198)

Where the *other* services also count – it's always BAYLEY WINDOWS



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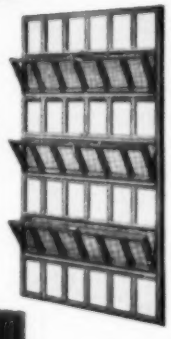

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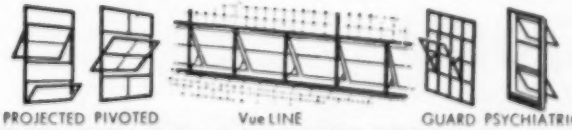

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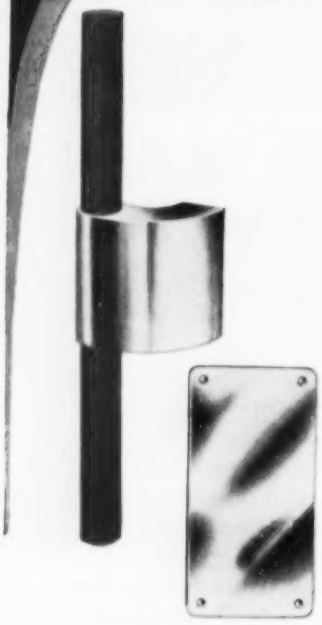

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reviews

Continued from page 196)

of design has developed in a century. Its most challenging and stimulating achievements have been produced within the last two decades.

These achievements are worth cataloging. *New Design in Exhibitions* presents a brilliant array of creative landmarks that have helped to form the background of current design. In sections devoted to national, industrial, cultural, social and political, and permanent exhibitions it deals with every outstanding example of exhibition architecture and display—from small areas for individual exhibitors, through large thematic exhibition sections, to temporary or permanent exhibition buildings, and traveling exhibitions. Its lists of architects, furniture designers, sculptors, muralists, on these projects reads like an international roll call of fame. These lists, in themselves, prove that the arts can still successfully collaborate with architecture.

The entire volume is paced with plans, photos, and brief explanatory texts that cover each example throughly, and in detail. The menu is rich and varied: the meal is satisfying. All told, this is an inspiring guidebook to modern design—one which every creative architect should own and enjoy.

MORRIS KETCHUM, JR.

basic principles

What You Should Know About Paints. *E. M. Fisher. National Painters Magazine, 30 Church Street, New York 7, New York, 1953.*

Confusion on the complicated subject of house paints is unquestionably one of the major reasons why architects often find it difficult to specify paints for modern buildings. From the chemist's point of view, paints are no more complicated than any other matter having to do with the chemical industry. But to the architect the subject of paints can be an impenetrable jungle filled with unpronounceable names, varying formulas, competing claims, and unpredictably differing specific uses and performance qualities.

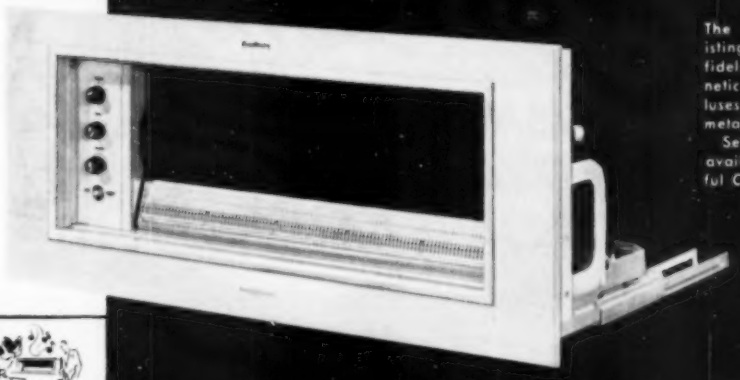
The present book does not, of course, set out to be the architect's *compleat vade mecum*, for to provide a handbook that would list the formulas and the performance qualities of the thousands of paints, varnishes, etc., currently on the market would require the efforts of an encyclopedia staff and a publication running, probably, into thousands of pages.

What this book does, and very effectively, too, is to present in everyday language the basic principles of paint technology. It offers practical analyses of the different functions of paint components such as pigments, binders, driers, and solvents. It discusses the functions of different types of outdoor and indoor paints, varnishes, synthetic resins, latex, and other water-thinned paints, primers, lacquers, enamels, and so on. By doing this simply and practically, it becomes a handy guide to help architects in their dealings with painters and paint contractors, enabling them to tell the painter exactly what he wants and can expect to get within the limits of existing paint technology.

The book is a small one, based on a series of articles which originally appeared in *National Painters Magazine*, of which the author is Technical Editor. Although the treatment is in general moderately comprehensive, it seems unfortunate that the problem of film permeability is not discussed, and that there is no more than a passing reference to the value of certain paints as vapor barriers. Perhaps these subjects are still too new and controversial for a book of this type.

It is also a bit disturbing that the author did not omit the opening and closing paragraphs of each article as it originally appeared in the magazine. They were necessary for the purpose of summary and introduction when published serially, but they are repetitious and awkward now that the whole series is in book form.

However, these are minor cavils. On the whole, this is a practical and useful little book which every architect will find of considerable value. GROFF CONKLIN



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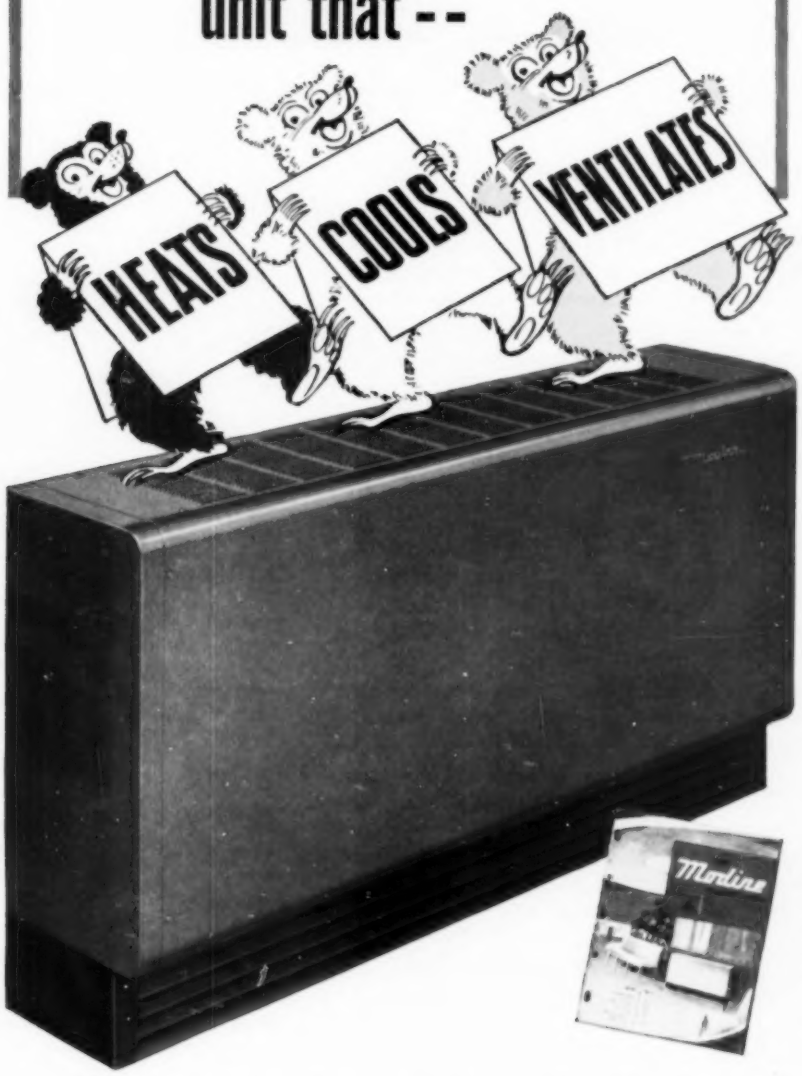

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FOR year 'round comfort in large public rooms, nothing can match the economy and performance of Modine Cabinet Units.

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C-1212

Here are three of many new construction or modernization possibilities

OFFICES. Year 'round comfort at lowest possible cost is provided this large office by economical Type BT Modine Cabinet Units.

STORES. Handsome as a convector but with four to five times the capacity, Type BF Cabinet Unit heats modern store uniformly.

LOBBIES. Wintry blasts from opening doors are no problem in this apartment. Type FF cabinet effectively warms lobby.

PLANS AHEAD

1954 editorial program will be based on factors producing 1954 architecture

The editors of PROGRESSIVE ARCHITECTURE, being architecturally trained people, believe in long-range, integrated planning. So P/A plans its editorial programs far ahead, integrating the structure of the magazine's contents with the needs of its professional readers. For the year 1954, P/A is planning its program around a simple, but all-important theme:

architecture for these changing times

Architecture for 1954 will be influenced by – in fact, produced by – certain social, economic and technical factors of our own time. P/A plans, month by month, to isolate those factors, and to study the buildings and the building types which they have produced. Thus the important and influential buildings that the magazine presents to you each month, and the technical discussions in the Materials and Methods articles which accompany them, will all be related to the background from which they spring. The series of issues which we plan are described in brief at the right.

All the regular features of P/A will be continued in 1954, covering every phase of architectural practice. You will get, each month, the Newsletter, Gutheim's new Washington Perspective, Progress Preview, Interior Design Data, It's The Law, Out of School, Spec Small Talk, Selected Details, and my own P.S. column.

In January a series of Historic American Buildings presentations will begin. Structures which have influenced technical or esthetic trends in the United States, will be selected and presented with the assistance and cooperation of the Society of Architectural Historians. Also beginning in January, P/A expands its Office Practice section – regular monthly articles on business problems, office routine problems, public relations, and legal matters.

PROGRESSIVE ARCHITECTURE stands for progress in architecture in 1954, as in every year. We recognize our responsibility to the largest architectural audience any magazine in the world has ever had. Our theme for the year, then, is appropriate:

architecture for these changing times

Thomas H. Creighton

JANUARY

This issue will set the theme for the year, and will be devoted to a look at the year ahead – P/A's annual PREVIEW of design trends, business prospects, and engineering advances. In addition that issue will announce the winners of the DESIGN AWARDS PROGRAM.

FEBRUARY

Effect on architecture of changing living habits. How have today's buildings – houses, apartments, other living structures – been influenced by the way people live today?

MARCH

Effect on architecture of more leisure hours. How many buildings – familiar building types and new types – have been influenced by today's greater possibilities for recreation?

Here are the subjects of the twelve issues of P/A that you will receive in 1954. It is possible that more detailed planning, as the year goes on, may require a change in the months in which some of the topics are presented.

APRIL

Effect on architecture of higher educational levels. How does the increasing ratio of educational levels to population figures affect the design of various building types – for children, and for adults?

MAY

Effect on architecture of growing obsolescence of buildings. Our physical plant in many building types is obsolete, should we remodel, redevelop? What are the business prospects – the design possibilities?

JUNE

Effect on architecture of new structural concepts. Will our building forms really change with new structural knowledge. What changes that can be documented have already taken place?

JULY

Effect on architecture of improving health care. Health care is improving, but hospital construction is lagging. How important to your practice are other health facilities, insurance plans, clinics?

AUGUST

Effect on architecture of cultural values. Churches are growing in membership; there is a turn to the arts and cultures; people want good books. How will this affect the design of buildings, and business prospects?

SEPTEMBER

Effect on architecture of greater mobility. Will motels replace hotels? How important to architects is the highway program – how about gas stations, restaurants, drive-ins, shopping centers, parking facilities?

OCTOBER

Effect on architecture of improved materials. What should the profession do to direct, aid, utilize developments in building products? What results are useable from research – government, university private?

NOVEMBER

Effect on architecture of expanding commerce and industry. What results in design and business prospects have come from the business boom? What is happening in commercial work, industrial construction?

DECEMBER

Effect on architecture of environmental control. How is the design of buildings being changed by new methods of heating, cooling, conditioning air; by acoustic control, by advanced lighting methods?

P/A's readers are also its contributors, and its best-qualified critics. This program can be carried through only with your continued support, contribution and suggestion of material, and critical readership. We solicit them and we again thank you for bringing the magazine so far ahead of the field in circulation and readership.

pa JOBS AND MEN

SITUATIONS OPEN

ARCHITECTURAL DESIGNER — middle-aged man thoroughly qualified through training and experience to design schools and hospitals. Location Kansas City. Excellent opportunity. Give every information in first letter. Replies held confidential. Box 63, PROGRESSIVE ARCHITECTURE.

ARCHITECTURAL DRAFTSMAN — wanted for high type architectural work in restoration of Williamsburg, Virginia. Permanent position and excellent working conditions. Five day week, paid vacation and other liberal employee benefits. Send outline of education and experience to J. A. Fuller, Director of Employment, Colonial Williamsburg, Williamsburg, Virginia.

WANTED — two experienced architectural draftsmen for varied work in a long-established, medium-sized Buffalo, New York office. Pleasant working conditions. Replies should give age, education, experience, starting salary expected and availability. Box, 71, PROGRESSIVE ARCHITECTURE.

JUNIOR ARCHITECT OR ENGINEER—skilled in perspective drawing and with sales personality wanted for permanent demonstration and selling job with a most interesting new machine development, location New York City. Written application with full particulars of degree, personal data and photograph to Box 77, PROGRESSIVE ARCHITECTURE.

ARCHITECTURAL DRAFTSMAN—a Lansing architectural office can offer a permanent position to a competent architectural draftsman with sufficient experience to develop working drawings from sketches. Good working conditions and salary. Applicants state experience, marital status and salary expected. Clark R. Ackley, 1811 E. Michigan Avenue, Lansing 12, Mich.

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ARCHITECTURAL DESIGNER-DRAFTSMAN — seven years' experience, college graduate wishes to relocate from New York. Experience on all types of buildings from initial design to completion of construction. Desires responsible position with firm doing contemporary work, with possible opportunity for future partnership. Box 68, PROGRESSIVE ARCHITECTURE.

ARCHITECT—41, A.I.A. California registration, 18 years experience in U. S. and abroad, seeks association with medium-sized west coast firm. Residential and commercial practice, all phases of work, chief draftsman, possible partnership. Box 72, PROGRESSIVE ARCHITECTURE.

ENGINEER—Over 30 years experience in the layout, planning and design of steel and concrete structures and foundations. Experience includes architecture and diversified engineering. Will accept hourly or fee arrangement. Not averse to travel. Neat, accurate, reliable. Harry Kaufman, P.E., 500 Ocean Avenue, Brooklyn, N. Y.

SPECIFICATIONS WRITER — extensive experience schools, industrial, hospitals — multistory buildings—steel, concrete construction. Experienced construction details, handle drafting room-field supervision, shop drawings, Chicago area preferred—but not essential. Detailed information furnished at interview. Brief, rapid, accurate, dependable. Available on two weeks' notice, present employer. Box 73, PROGRESSIVE ARCHITECTURE.

ARCHITECTURAL ENGINEER — B.S. Degree, registered in Kansas, 24, married, with 1½ years general design experience desires position with responsibility and future in contemporary design office, preferably in the Mid-West or Rocky Mountain area. Eager to prove ability, initiative, and personality. Box 74, PROGRESSIVE ARCHITECTURE.

CIVIL ENGINEER & ARCHITECT—licensed engineer and architect in several states, 22 years' experience in structural engineering and building design, best references. Seeks position with architect, engineer or industrial concern, vicinity of Philadelphia, Reading, Wilmington. Box 75, PROGRESSIVE ARCHITECTURE.

LICENSED ARCHITECT—with 3½ years small-office experience in designing and detailing of institutional and residential work would like to make change to more responsible position. Box 76, PROGRESSIVE ARCHITECTURE.

Advertising Rates

Standard charge for each unit is Five Dollars, with a maximum of 50 words. In counting words, your complete address (any address) counts as five words, a box number as three words. Two units may be purchased for ten dollars, with a maximum of 100 words. Check or money order should accompany advertisement and be mailed to Jobs and Men, c/o Progressive Architecture, 330 W. 42nd St., New York 36, N. Y. Insertions will be accepted not later than the 1st of the month preceding publication. Box number replies should be addressed as noted above with the box number placed in lower left hand corner of envelope.

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MURIEL FEDER-ARCHITECTURAL & DESIGN PERSONNEL AGENCY—a personalized placement service for top-level architects, designers, engineers, draftsmen, estimators, and interior designers, selective contacts arranged in a confidential and professional manner. Interviews by appointment. 58 Park Avenue, New York, Murray Hill 3-2523.

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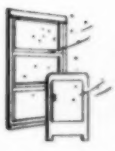

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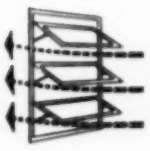

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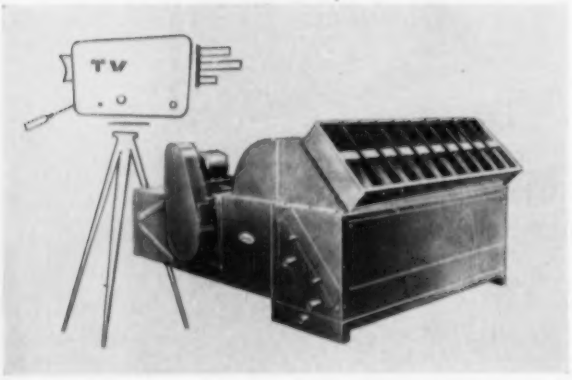
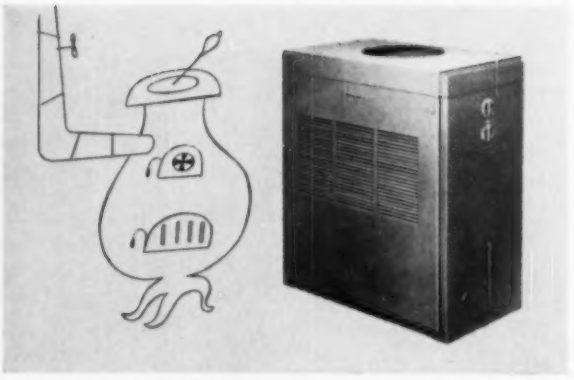
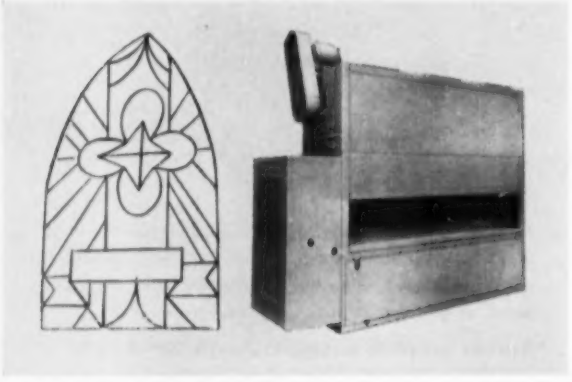


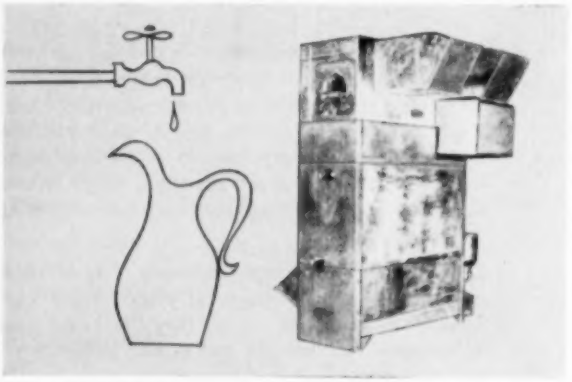
ZONES FOR TV. WFBM, Indianapolis, stars a Carrier Zoning Weathermaker. Show by show, comfort keeps pace with the programming through eleven individually controlled zones. Works equally well in office suites, department stores, motels.



NEW LIFE FOR OLD HEATING SYSTEMS. A new 2-ton Weathermaker teams up with existing warm-air heating systems to provide low-cost cooling for homes and stores. It's as flexible as a contortionist, offers almost unlimited installation combinations.



BIG COOLING PACKAGE. Carrier's 20-hp Commercial Weathermaker has the performance features of a built-up system, yet it's a compact, self-contained factory-assembled unit. Ideal for churches, stores, banks or wherever space is a special problem.



WATER SHORTAGES are no great concern where Carrier Evaporative Condensers take the place of water-cooled condensers and cooling towers. They can be located indoors or out. Capacities, 10 to 85 tons. They're sectionalized for easy installation.

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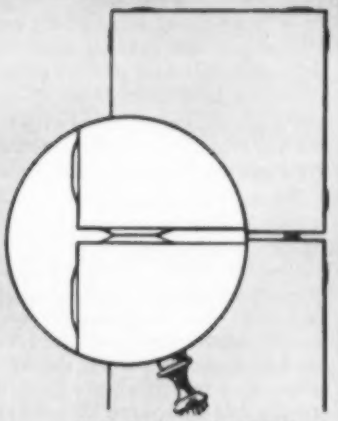
Better-looking walls call for a material of accurate size that gives a surface true-to-plane, with narrow, even joints between units.

American-Olean's new Self-Spacing Tile assures even alignment and precise spacing.

Straight grout-lines of uniform width, both vertically and horizontally, are practically automatic with this new development in cushion-edge glazed wall tile.

Accurate sizing and careful grading for color are two additional steps which make any A-O Tile installation more attractive—still more reasons for specifying American-Olean Tile. Its beauty is permanent—it's real clay tile!



TWO SMALL PROJECTIONS on each edge of every A-O Self-Spacing Tile butt against similar projections on the adjoining tiles, automatically making an even 1/16" space between tiles. Grout flows easily into this space, assuring a good bond.

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It happens so often at the end of a wintry day. Your car has carried you faithfully, from one business call to another, over streets and roads passable by public snow removal equipment.

Then dead-tired at nightfall, and within sight of your family and the warmth of your fireside, you get stuck in your *own driveway!*

To be "snowbound" fifty feet from home is an exasperation many of us have shared . . . but a totally unnecessary one. Modern driveway and sidewalk snow melting systems prevent it and should be as much a part of the modern American scene as the integral garage or the automobile itself. Amortized over the lifespan of the home and financed as part of the mortgage, or later as part of an improvement loan, the cost per year is negligible compared with the safety, convenience, increased property value, and collateral benefits derived.

Reliable *steel pipe,* proved in over 60 years of hot water and steam heating, is the most widely used heat transmission medium for snow removal systems. For steel pipe is economical, durable, readily formable and weldable for coils and grids, and is "familiar" to plumbers and pipe fitters everywhere.

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KENFLEX vinyl tile floors can be installed below grade... *over concrete in contact with the earth*

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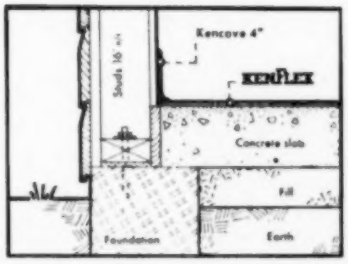

Above detail illustrates how KenFlex is installed directly over concrete. Prime coating of concrete is not necessary.

Interior design, *Stanley Haggert*... Photography, *Maurice Bauman Studios*

Specify KenFlex for below-grade basements with complete confidence. Once down, it is amazingly durable... outwearing other types of resilient floors of equal thickness. KenFlex is easy to clean, too... with a smoother, non-porous surface that is impervious to spilled greases and oils, inks and detergents ... acids, alkalis and alcohols. Yet, normal residential maintenance consists only of a damp mopping... and KenFlex doesn't require waxing except to make the crystal-clear colors shine a bit more.

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INSTALLATION: Over any smooth, firm interior surface: wood, plywood, radiant heated concrete slab, concrete in contact with the earth—on or below grade.

THICKNESSES: Laboratory and in-use tests have proven the wear-resistance and durability of vinyl flooring. Consequently, Standard Gauge (1/16") is recommended for normal residential and commercial uses. Where traffic will be very severe 1/8" KenFlex is suggested.

SIZES: Standard tile size is 9" x 9"...also available are 9" x 9" decorative ThemeTile inserts, and 1" x 24" Feature Strip in four solid colors.

Approximate Installed Prices (per sq. ft.)

	Standard (1/16") Gauge	1/8" Gauge
KENFLEX—all colors	40¢	65¢

KenFlex is available in 15 colors, all of which are marbleized. Costs shown above are based on a minimum area of 1,000 sq. ft. over cement underfloor.

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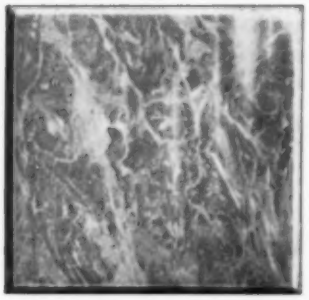

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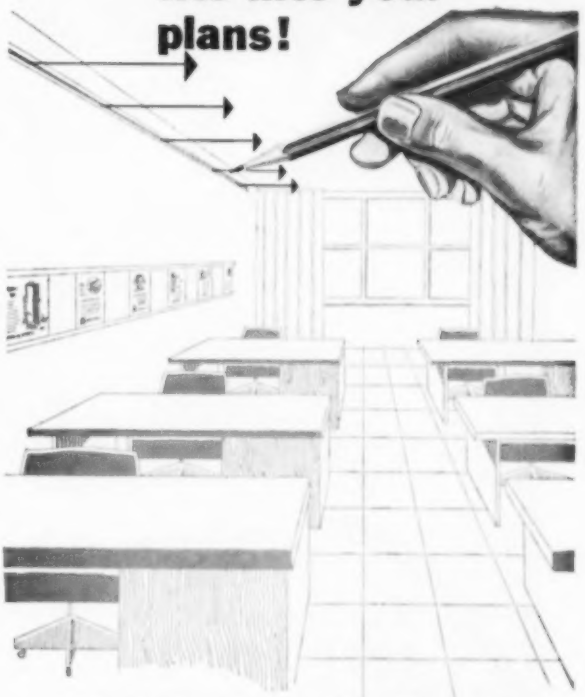

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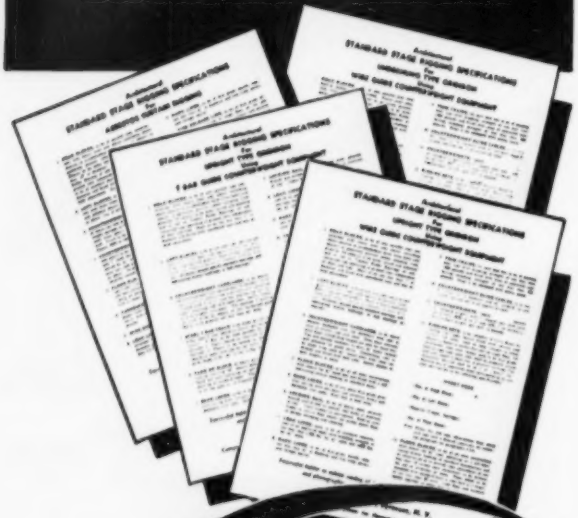

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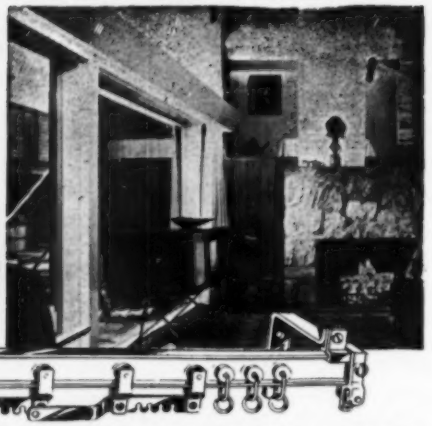

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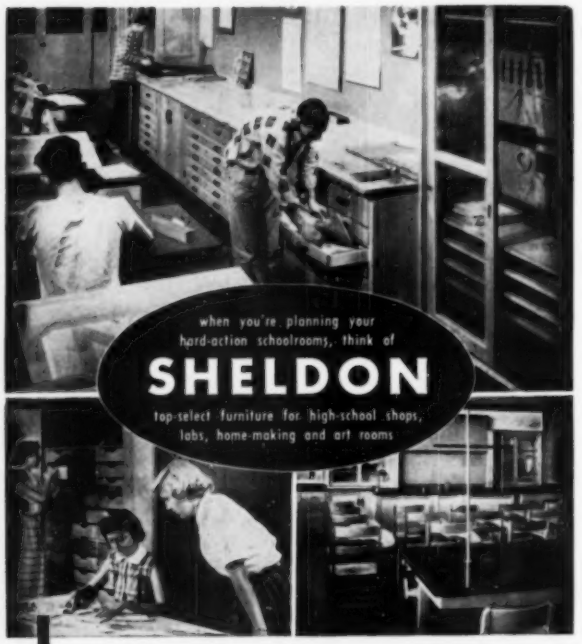
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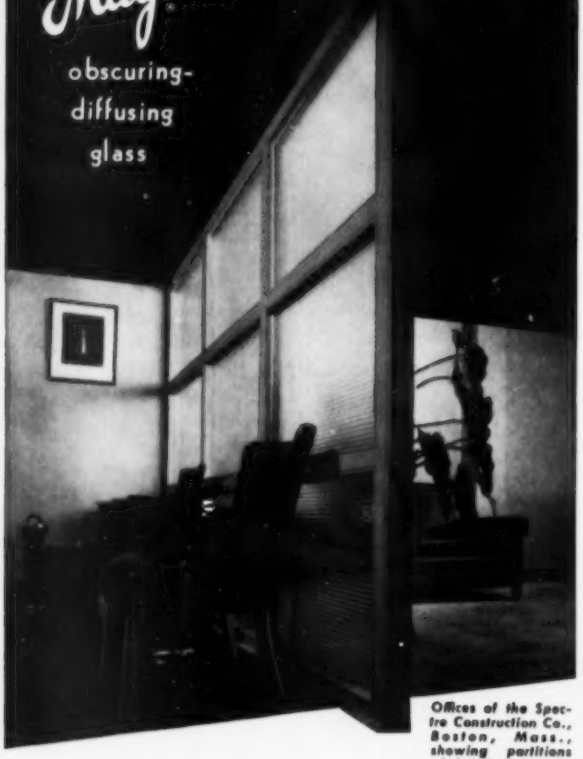

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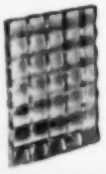

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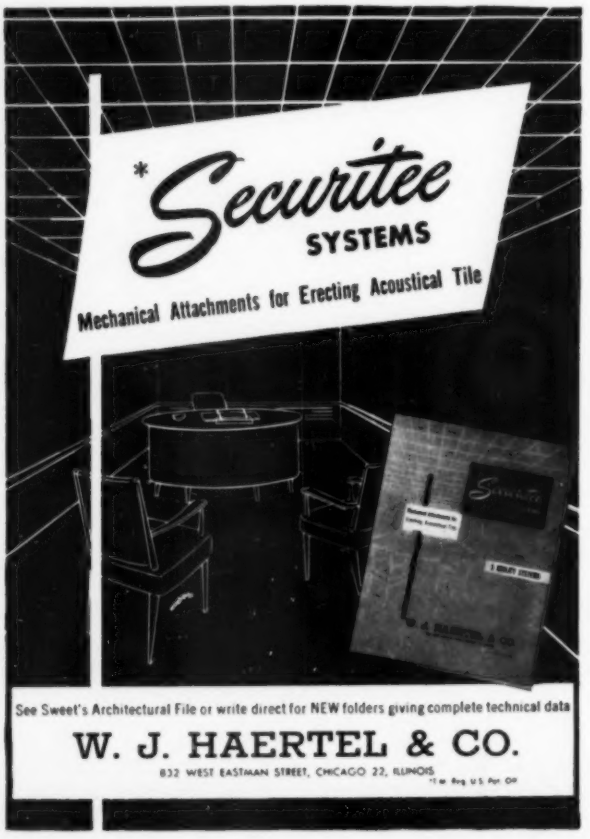

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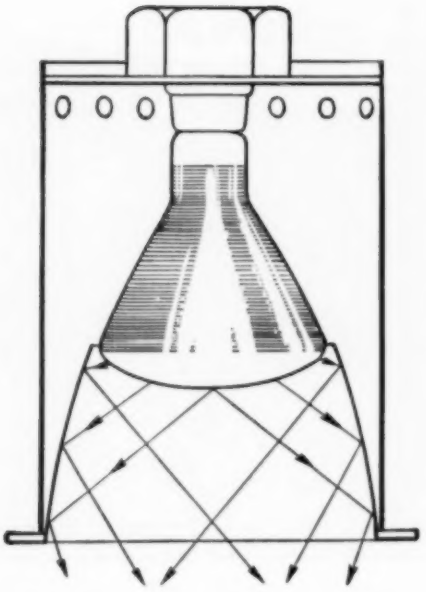

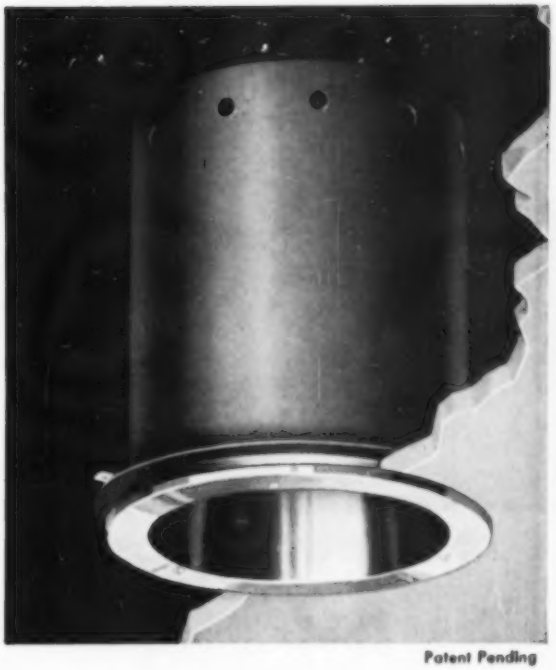

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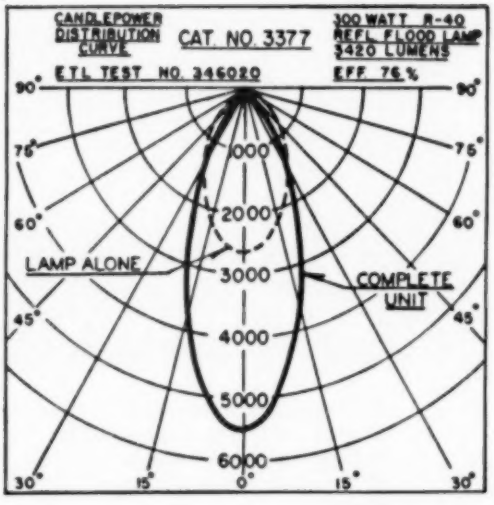

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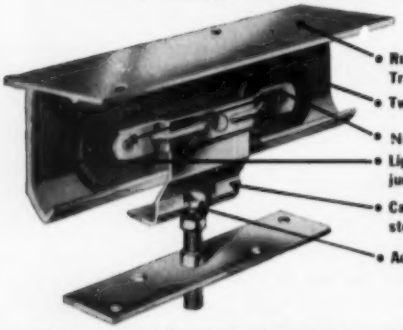
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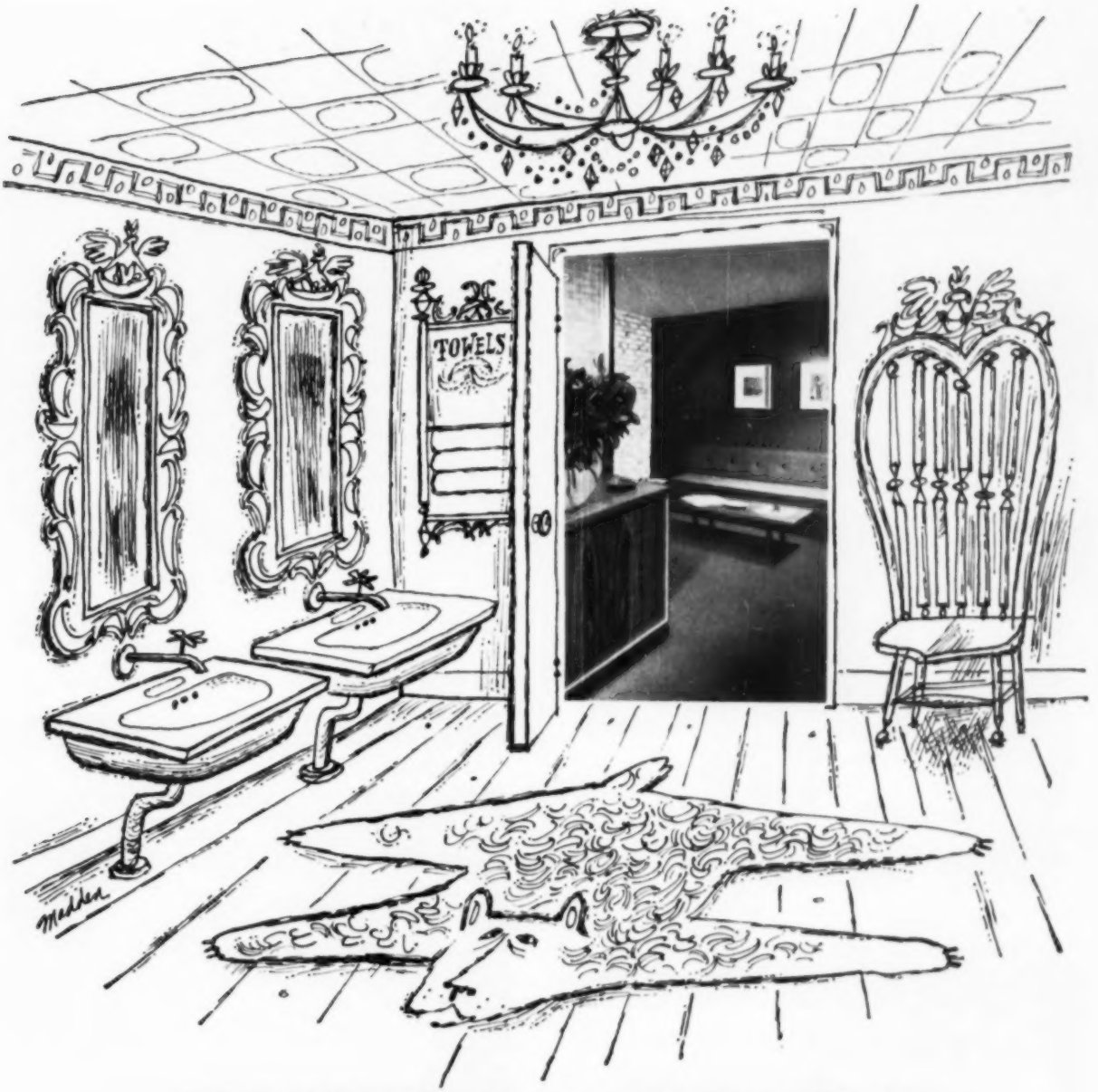

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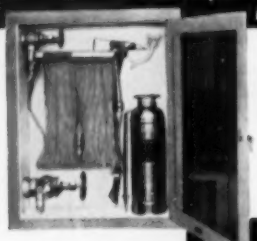

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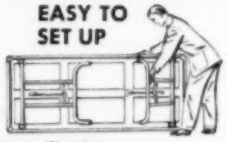

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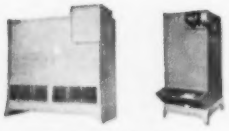

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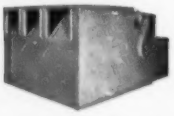

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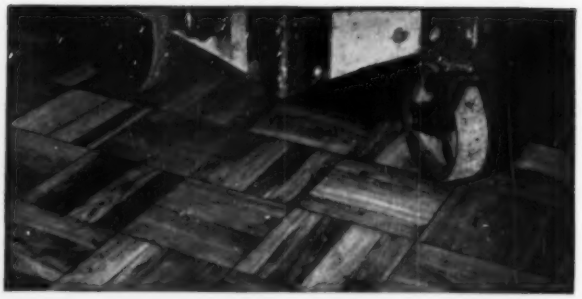

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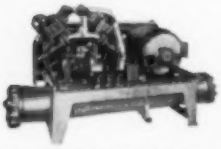

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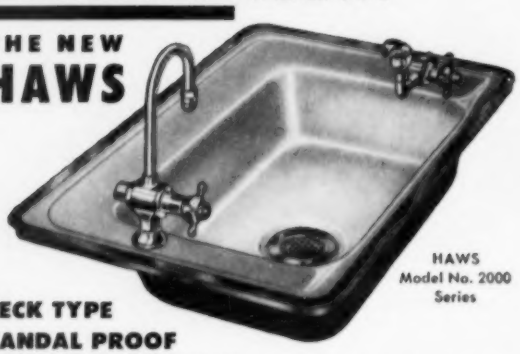

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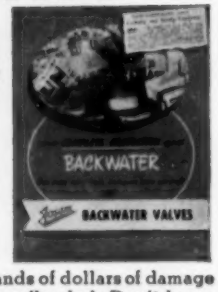

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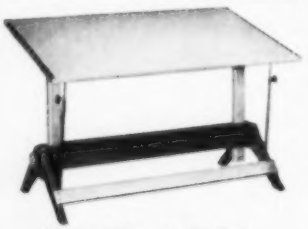

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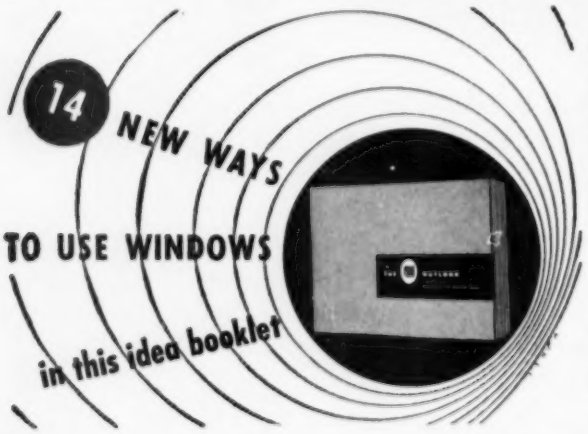

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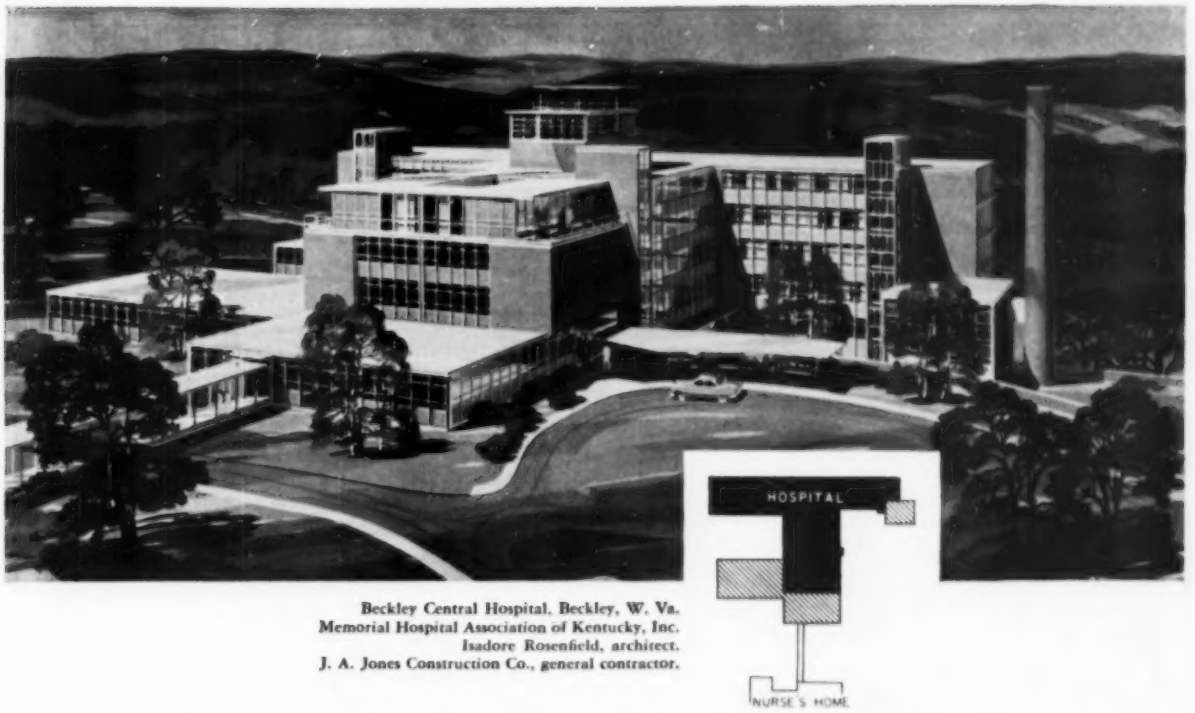

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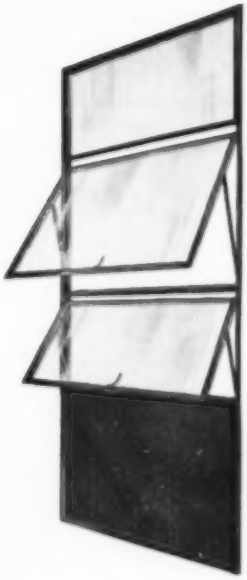

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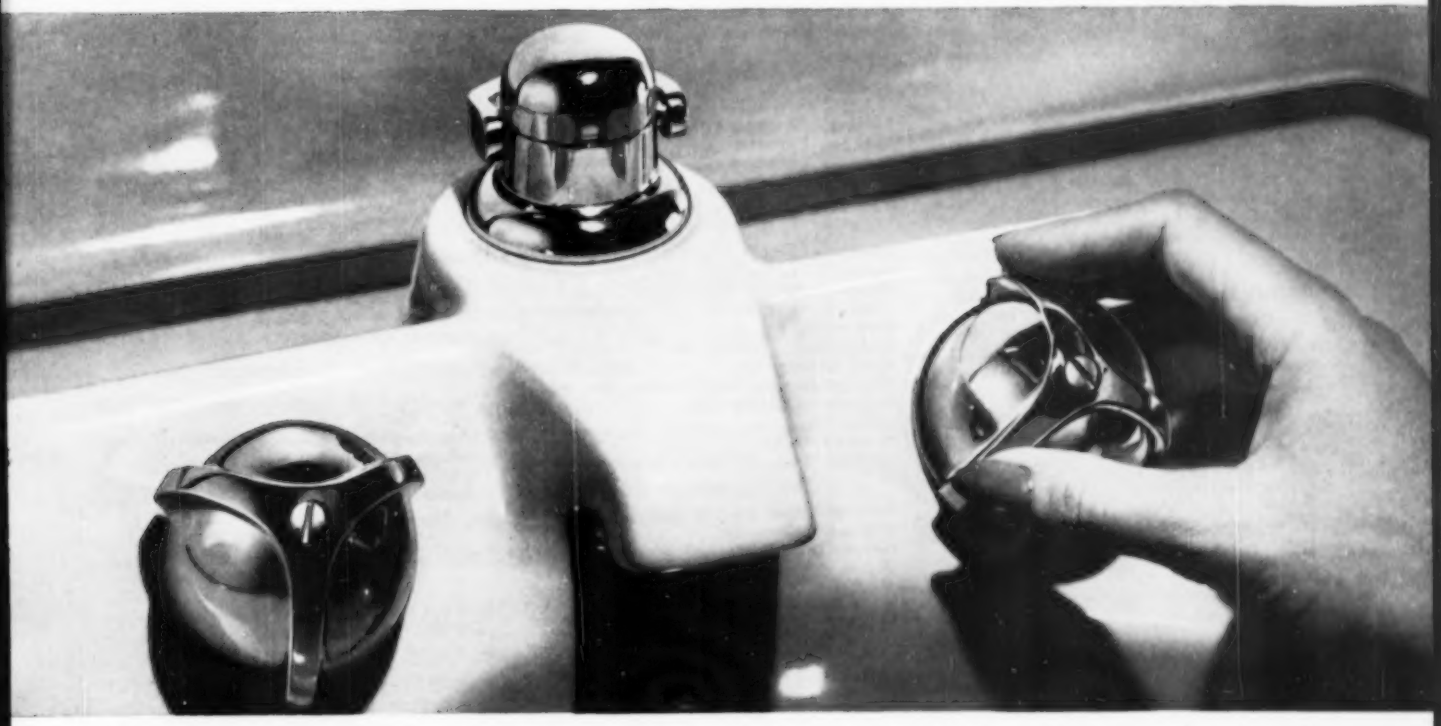

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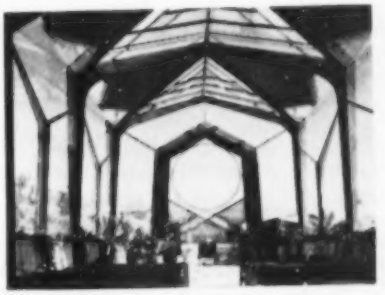

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P.S.

After the Jury had worked all day at selection of the Awards and Citations that you have seen in this issue, its members looked tired. The members of the P/A staff, who had worked for weeks receiving, classifying, entering, and finally displaying the material which had been submitted for judgment, were fagged out. So was I. So I took our visiting Critics and the Editors down to my house and we all sort of collapsed and had a drink or so, and then finally some food. It developed into one of those wonderfully relaxed evenings (which come about only through extreme fatigue or after a complete rest) when everyone talked great good sense cloaked by utter nonsense. It was the sort of evening one wishes he had a full recording of, because memory of *bons mots* and *belles phrases* becomes dimmed, and reporting spontaneous remarks is at best sketchy.

Reporting thus, however, I remember that Fred Severud stood up at one point and asked whether anyone minded if he made a speech. He was assured that we would all be delighted, so he made a very formal and very impressive speech about the structural ability of the spider. He pointed to the exactitude as well as the intricacy of the web that the spider weaves; he applauded that creature's sure knowledge of what he wanted to do, with minute calculation of wind stresses, construction methods, tension and compression possibilities of the material used. At the conclusion he asked, "Should we not, in the face of this remarkable ability, feel humble?"

We were all silent as Fred sat down, and then he suggested that someone else make a speech. Eero Saarinen thereupon got up and, in just as formal a manner, replied to Severud. He admitted that he was impressed with the engineering talents of the spider, but he wanted to point out that we should not be so overwhelmed by this feat as to want to emulate, or be depressed because this ability seemed greater, in some senses, than ours. "We are earthbound creatures," Eero pointed out, "and our structures must be pegged to the earth. It is not possible or appropriate for us to think in terms of structures for those creatures which are not bound to walk and live on the earth." He then proceeded to elaborate some of the possibilities that are open to *us*, rather than to spiders, in a structural sense.

Then the speechmaking seemed to be over when George Howe arose and said that he had a further thought to add. "I would like to speak," he said, "of the habits, surely worthy of study and perhaps of emulation of another of God's creatures—the tarantula. The tarantula," he said, moving out to the middle of the floor, "is not interested in structural engineering problems. His interests lie in a different direction. His great feat is this —that before he makes love, he dances the rumba—thus" . . . and he proceeded to demonstrate the rumba as done by a tarantula or a human being, amid great applause.

It was a good evening, after a good judgment. I have a letter from George Howe, enclosing a manuscript, "in gratitude for a nice dinner and a pleasant evening." I am the one who is grateful, for the rest of this column is given over to George, as guest columnist. I hereby offer a prize of a one-year subscription to PROGRESSIVE ARCHITECTURE to the reader who first correctly identifies all the characters in Howe's story. T.H.C.

IT WAS A GREAT SYMPOSIUM by George Howe

The Intruder had been informed that the Symposium was to be held that day at the residence of the Lady Editor. On arriving at the door the neat maid who answered the bell informed him that the Editor was ailing but was receiving guests in Her Chamber. When the Intruder entered the Presence the Editor did not notice his arrival. She was lying in the middle of a modish Triple Bed talking loudly to the President of the College of Fellows, who was reclining at Her left side under the coverlet.

"What's the matter with Her?" whispered the Intruder to the Acolyte who was swinging a censer by the door.

"She's suffering from rise and fall of Her circulation," answered the Acolyte in a low voice.

"And is the President sick too?" inquired the Intruder.

"He's been subject to undulant xenophobia for years," said the Acolyte, "and has to keep his feet off the ground as much as possible."

"So what are you doing here?" hissed the Intruder.

"I'm waiting to announce the Coming of the Saviour," murmured the Acolyte mildly.

During this exchange the Intruder had had time to identify several other Symposiacs to whom the Editor and the President were paying no attention. In a dark corner the avant-garde Director of Architectural Exhibitions and his friend the avant-garde Critic-Historian were throwing dark looks at the bed-ridden pair and murmuring dark words to the Promoters of Retail Sales, while the Observer of the Skyline was practicing Bird Calls at the window.

But hardly had the Acolyte explained the reason for his presence to the Intruder when he began to swing his censer convulsively, exclaiming loudly, "He cometh! He cometh!" and indeed, at that moment the Saviour floated into the Chamber, crowned by His Pork Pie Halo and borne aloft on the Wings of His Inverness Cape with the Fur Collar, and he settled down under the coverlet on the right side of the Editor away from the President.

"Is He sick too?" grated the Intruder to the Acolyte.

"Yes," whispered the Acolyte, blushing, "He's in Love with the Editor."

As though in answer to the word Love, a small man disguised as Cupid ran into the room carrying before him a little tray on which flickered three little Nightlights.

"Who's *that?*" hissed the Intruder.

"That's the Dean," whispered the Acolyte politely, "and those Nightlights are the Three Lamps of Modern Architecture, which he is about to offer to the Saviour, the Editor, and the President."

"Be off or I'll kick you downstairs," said the Saviour icily as the Dean offered Him the first Nightlight, and suiting action to word He extended from under the coverlet a neat English boot whose toe projected the Dean backward through the door with a satisfying clatter.

"My Love," said the Saviour, turning tenderly toward the Editor, "you speak with the Voice of God—Mine!" and at this *boutade* the Two smiled at one another knowingly, though the President was not amused. Suddenly, from the air which was pungent with Editorial Femininity, emerged the American Mercury.

"If you will look in my Dictionary of Quotations," said Mercury with classic calm, "you will find an Old German Proverb that says *No Bed is Big Enough for Three.*"

"*Less is More!*" screamed the Editor, "the Teutonic Threat in my very Chamber!" and she buried her face in the Saviour's fur collar.

"If you will look up the noun *Fur* in my Dictionary of Quotations," continued Mercury, "you will find that *The Fur that Warms a Monarch Warmed a Bear.*"

"He's a Teuton Communist!" roared the President, the Editor, and the Saviour with one voice, and as Mercury flapped the wings on his heels in flight through the door, the three leapt out of bed to run after him in hot pursuit. The sound of their pelting feet diminished down the stair until it was swallowed by the bang of the Front Door.

•

"Let's go have a drink," said the Intruder to the Acolyte, so they left the Director, the Historian, and the Promoters still darkly whispering in a dark corner and the Observer still practicing Bird Calls at the window.

•

"It was a Great Symposium," said the Acolyte, after his third Martini.

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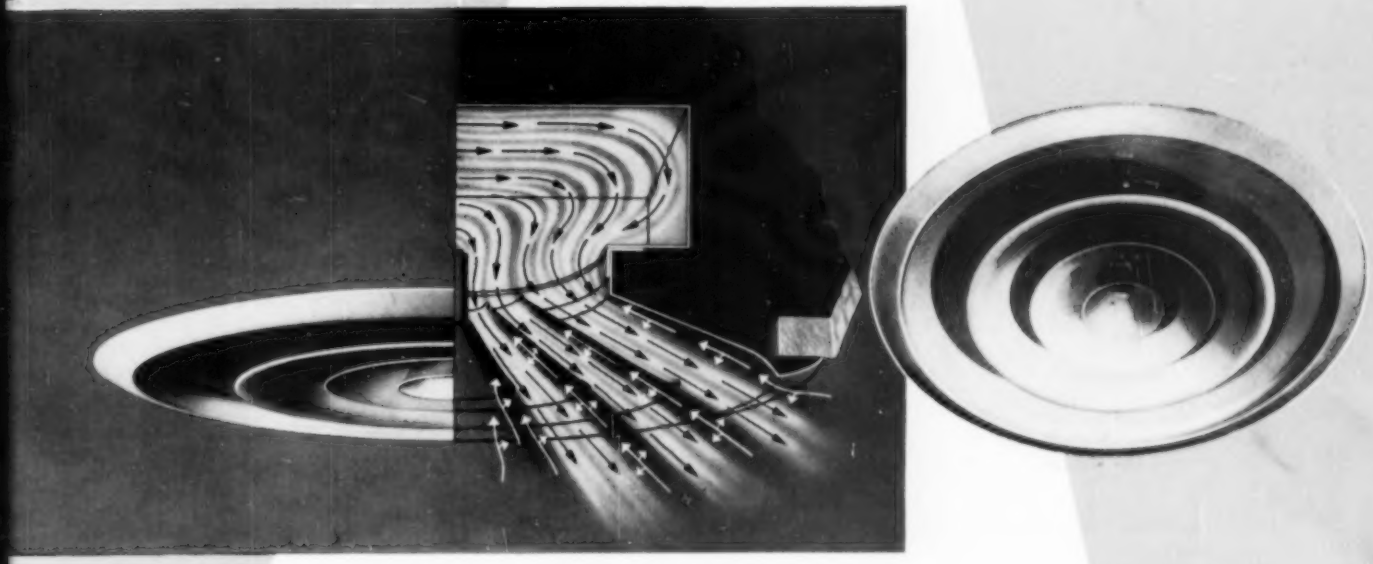

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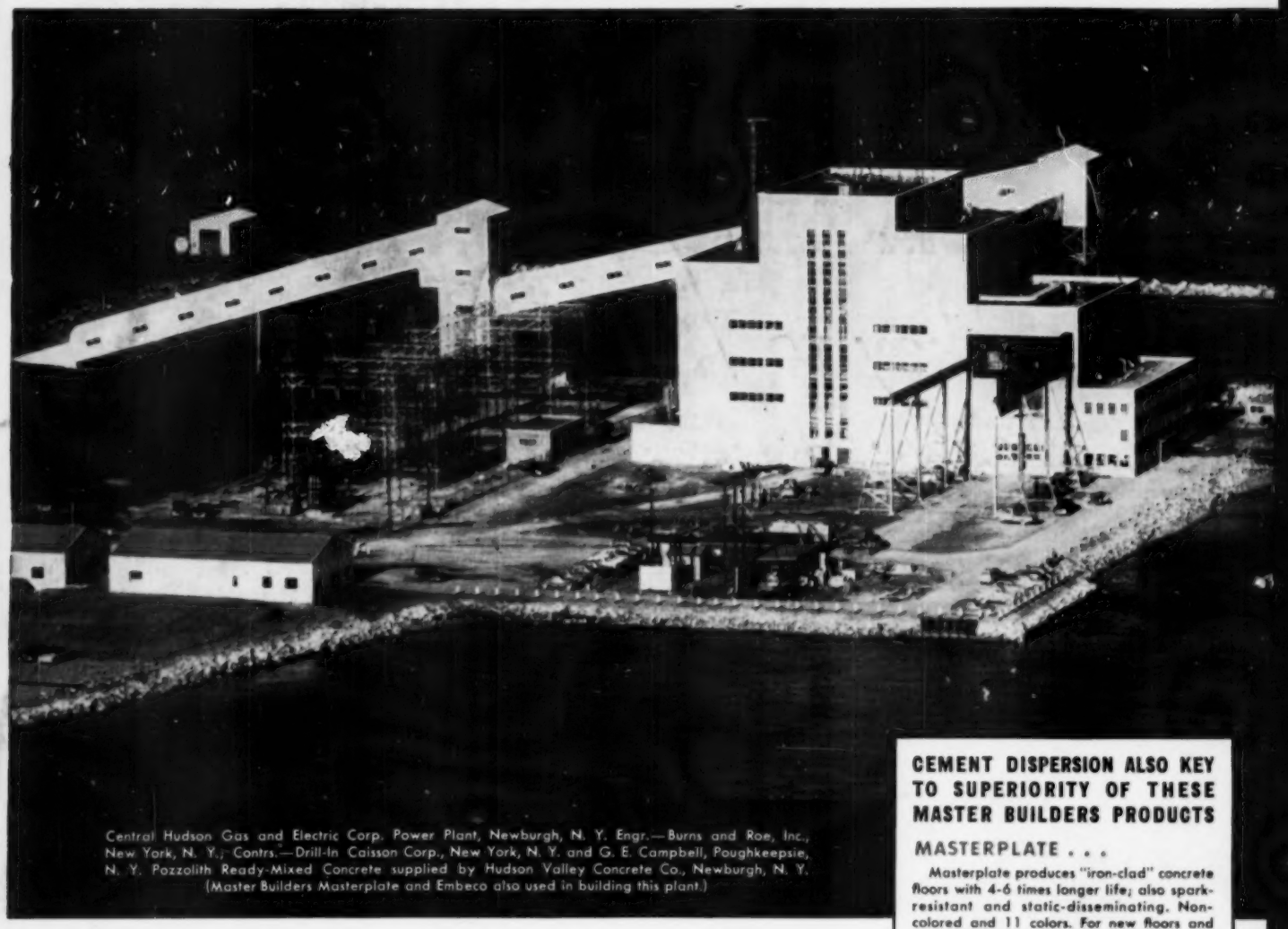
REPRESENTATIVES IN PRINCIPAL CITIES

"No Air Conditioning System Is Better Than Its Air Distribution"

Seventeen years ago, Anemostat Corporation of America introduced the Aspirating Air Diffuser, which was promptly accepted by the air conditioning industry. • Through research and development and experience gained over the years in tens of thousands of installations, we have consistently improved the quality and performance of Anemostat products. • Value, quality and performance of Anemostat Air Diffusers are still unequalled—there are no "substitutes" for Anemostat Air Diffusers.



Central Hudson Gas and Electric Corp. Power Plant, Newburgh, N. Y. Engr.—Burns and Roe, Inc., New York, N. Y.; Contrs.—Drill-In Caisson Corp., New York, N. Y. and G. E. Campbell, Poughkeepsie, N. Y. Pozzolith Ready-Mixed Concrete supplied by Hudson Valley Concrete Co., Newburgh, N. Y. (Master Builders Masterplate and Embeco also used in building this plant.)

POZZOLITH READY-MIXED CONCRETE in Central Hudson Power Plant

Use of Pozzolith Ready-Mixed Concrete in such noteworthy structures as this important power plant shows its acceptance by leading builders.

More than 10,000,000 cubic yards of Pozzolith Concrete were placed this past year alone. Pozzolith Concrete is better because it has a low unit water content.

Pozzolith* conforms with the water-cement ratio law — basis of ACI and ASTM procedures of design, specification and production of quality concrete. *Full information on request.*

*POZZOLITH . . . the cement-dispersing, water-reducing agent which entrains the optimum amount of air in concrete. Can be added to the mix as a powder or dissolved in water and dispensed as a liquid. Pozzolith was developed by The Master Builders Co. in 1932.

Over 600 Leading Ready-Mixed Plants Are Producing Pozzolith Ready-Mixed Concrete

CEMENT DISPERSION ALSO KEY TO SUPERIORITY OF THESE MASTER BUILDERS PRODUCTS

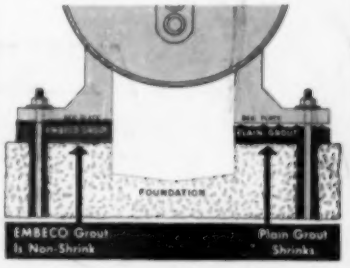
MASTERPLATE . . .

Masterplate produces "iron-clad" concrete floors with 4-6 times longer life; also spark-resistant and static-disseminating. Non-colored and 11 colors. For new floors and resurfacing.

Section of Masterplate Floor. Note Thickness of Armored Surface.

EMBECO . . .

Embeco (1) produces flowable, non-shrink, ductile grout which . . . (2) gives full, level, lasting bedplate contact . . . (3) helps avoid costly shutdowns.



the MASTER BUILDERS Co.

CLEVELAND 3, OHIO — Subsidiary of American-Marietta Company — TORONTO, ONTARIO